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# EDITOR'S COMMENT

THE constantly increasing importance from a diagnostic standpoint of roentgenological methods of examination particularly m con junction with the injection or administration of opaque substances is one of the most interesting developments of contemporary medicine Roent genological visualization of the alimentary tract, the urinary tract and the gall bladder has been achieved and accepted as an important and essential aid in diagnosis. Visualization of the cerebral ventricles and the subarachnoid space with the aid of air injection has at times proven of diagnostic value when localizing signs of nathological lesions have been absent. The injection of air into the peritoneal cavity or the recognition of an accumulation of gas outside the abdominal viscera occasionally is of very great diagnostic importance

In the demonstration of the bronchial tree of the spinal subarachnoid space and still more re cently of the uterine cavity the use of iodized oil has attracted considerable comment in past months particularly in France A review of some of the indications and results of the use of lipiodol by Sicard and Forestier appears on page 57 Lorey (p 15) reports twelve cases in which indized oil was used in the demonstration of bronchiectases and Escudero and his associates (p. 15) the visua lization of hepatobronchial fistulæ with iodized oil Clark and Ferguson's comment on the value of roentgen demonstration of the opaque bladder in cases of cystocele and prolanse of the uterus (p 25) indicates the possibility of determining with some degree of exactness the results of surgical procedures designed to correct these conditions

With reference to cholecy stography, the suggestion of Graham and his associates (p +2) that it may be possible with the injection of a single substance to determine kidney and liver function and render the gall bladder opaque to the X-ray and Richter a warming that the absence of signs of gall bladder pathology in X-ray examination should not be permitted to outweigh clinical symptoms of disease (p -22) deserve attention

A number of particularly interesting abstracts relating to various phases of neurological surgery will be found in this month's issue of the Anstract Singleton's paper on the recognition and treatment of glossopharyngal neuralgia (p. 10). Taylor's suggestion as to the possionity of preserving the ophthalmic division of the fifth nerve in dividing its sensory root (p. 9). Davies discussion of the indications technique and results of phrenic evulsion in the treatment of pulmonary tuberculosis and bronchiectasis (p. 12) and Thearle's report of surty two cases of radical phrenicotomy for pulmonary tuberculosis (p. 11), touch important problems in neurological surgery

Ketlogg's conclusions as to the treatment of placenta pravia based on 303 cases from the obstetined service of the Boston City Hospital (p. 32) Colebrook and Fry's report of some laboratory investigations in connection with puer peral free (p. 32) Medlar study of twenty six cases of early renal tuperculous (p. 8) Hunts careful description of the technique of hemostasis in suprapulse prostatections (p. 41) and Wittel's discussion of the treatment of injunes of the hand and tingers (p. 49) are only a few of many abstracts on suspects of very practical importance appearing in this month is sue.

x

# INTERNATIONAL ABSTRACT OF SURGERY

JULY, 1926

# ABSTRACTS OF CURRENT LITERATURE

# SURGERY OF THE HEAD AND NECK

# HEAD

Blair V P Notes on the Operative Correction of Facial Palsy South M J, 1926 x1x, 116

Simple nerve suture is seldom a practicable pro cedure in facial palsy because of the short course of the main trunk of the nerve in the soft tissues and the small diameter of its branches Complete trans verse injury proximal to the pes anserinus is pref erably treated by anastomosis with the spinal ac cessors or the hypoglossal nerve Pulsy of the twefth nerve is very crippling to singers and speakers, and paralysis of the eleventh to laborers Although suc cessful unnervation may follow anastomosis with part of the donor nerve trunk or implantation of the facial into the donor nerve most surgeons prefer to use the entire donor nerve Although not originating as finely differentiated movements as the hypo glossal nerve, the spinal accessory can give worth while innervation to the facial muscles. The object tionable movements can be largely overcome by exercises before a mirror

The most noticeable feature of long established Bell's palsy is literal displacement of the mouth to the opposite side which is most evident in similing and laughing. Most of the innervation of a nerve anastomosis is obtained in from six to twelve months, but learning to use this innervation to the best advantage requires much longer

Transplantation of innervated muscles for Bell's palsy has not been tried by the author

paisy has not been tried by the author.

Mechanical fixation is accomplished by
shortening the stretched tissue on the parabyzed side,
or (2) obtaining triation by the impliantation of live
strands of autogenous fascia lata strips. The first
method is used chiefly after excision of the parotid
gland and its contained nerve and is done at the
time of the excision. Fascial strip fixation is of more
exact application and is used alone or with nerve
suture. This operation, if done shortly after a nerve
anastomosis, greatly lessens worry and uncertainty
during the period of nerve regeneration decreases

the load on the newly and often partly innervated muscles, and limits the overstretching of the para lyzed muscles

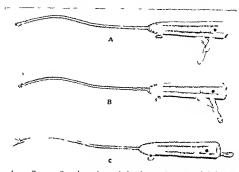
The Jascia loops that are substituted for the orbic ularis orts and the bucinator muscles should firmly engage the fibers of the unparalyzed half of the orbic ularis muscle in both the upper and lower has and should be fixed literally in the listica in front of the ear. The fascia is inserted as shown in the illustration

A specially devised trocar niedle (the Reverdin needle is too short, a simple large eyed needle on a handle prolongs the operation and increases the chance of fascia contamination) enter- a small skin nicision near the ear engages the temporal fascia or tissue over the parodid traverses the cheek and emerges at the messal end of the future loop. One and of the fascial strand is locked in the needle and the needle withdrawn, an inch or so of the strip being left to protrude at the messal needle puncture.

The strip is then disengaged and the needle re introduced into the original strip opening near the ear, brought through the cheek by a different route, and brought out at the previous mesnal opening where the protruding fascal end is grasped and drawn back through the tissues. The two free ends, which then emerge at the same incision near the ear are tightened to produce the proper amount of fixation, this being tested by relaving the pull after the application of a Halsted clamp to the fascal loop ends

When the correct length has been determined, the ends are sutured together with fine silk and burned in the tissues. As in the other types of fascia suture, each stitch engages only a part of the thickness of the strand. The fascial loops should be sufficiently short to cause quite noticeable overcorrection.

Immediately after closure of the wound the strain is taken off the newly implanted fascia by maintain ing the face in an overcorrected position by means of one layer of gauze applied with flexible collodion. A marine sponge pressure dressing is used for two weeks.



In Tracum Buses an amplanting the factal strips. A position with the book on the tract priture letter by the great per lateral strip. If the book parisally withdrawn into the trace that the facts at the fact and the fact at the fact and the fact at the fact and the fact at the fact at the fact and the fact at the fact at the fact and fact at the fact at the fact and fact at the fact at the fact and fact at the fact at t



Fig. 2. I the manner of u ing the needle. B the fascial step in place

Infection excessive harmorthing and the use of a homograft have been causes of failur. The author prefers suk as a ubstitute for any live autog nous tissue but is preju lice I against all foreign implants such as preserved tendon and kanaroo tendom.

If partial paralysis from section of the inframan dibular branch dump, a drainage inci ion or the removal of the submaxillary is mpb glands requires correction the author prefers fascral fixation of the injured side to paraly is of the opponent muscles Marrie C. Bester V.D.

# EYE

Observe P The Mechanism of Accommodation Confirmed by Experimental Data Am J Ophth 1926 3 & 12 90

The author gives the Helmholtz and Tscheming theories of the mechanism of accommodation and summarizes the evidence in favor of the Tscheming theory as follows

r Experimental data reveal that the contraction of the citiary muscle enlarges the citiary opening,

producing tens on instead of relaxation of the suspensory ligament

2 When the lens is removed from the young eve and allowed to assume the form given it he its own elasticity its shape becomes more or less globular or spheroidal which is not the shape that it asumes dunne the act of accommodation

Repeated measurements of the duplacement of reflected images demonstrate that during accommodation the surface of the lens has a considerably greater curvature in the center than at the pemphers

... The trembling or jumping motion of the images during accommedation is due to the vibrators action of all of the voluntary muscles, which is imparted to

the lens through the ligaments

5 The amplitude of accommodation dimini hes toward the periphers of the pupil and the contrac tion of the longitudinal fibers of the ciliary muscle exerts traction on the choroid, tending to give further support and consistency to the vitreous which in turn steadies the posterior surface of the lens

6 Becau e of its extreme tenscity and elasticity and its dome shape, the po-terior cap-ule cannot fatten cut in the middle, but toward the periphers where the cortex of the 'ens s considerably softer, it vields to the action of the supersory ligament

The increase in thickness of the lens during accommodation is due to the double pressure exerted upon the softer cortex by the vitreous acting on the posterior surface and the ligament acting laterally these forces causing a duplacement of this ofter mass toward the point of least resultancethe anterior capsule

8 The descent of the image of the posterior capsule during an extreme effort of accommodation is due possibly to a very slight tiltung of the lens in its horizontal axis and probably also to slight motion

of the eye itself

9 It must be borne in mind that during consciousness all involuntary muscles maintain a state of tone and that therefore the ligament at all times exerts a slight tention due to the tone of the ciliars muscle and the elasticity of the lens capsule, prin cipally the posterior cap-ule

10 All of these facts are possible because of the action of Schlemm's canal as a safety valve in the AUBREY H. PEMBER M D

anterior chamber

# Ziegler S L The Surgery of Trachoma Practical Problems J Am M 4ss 10 6 lxxxv1 300

Ziegler reviews the lesions that cause the persistence of trachoma and describes the operative treatment The chief factors in this pathogenic dysfunction are two mechanical processes (1) lid friction from blapharophimous and triching and (2) lachrymal maceration from the perversion of tears and ob-truction of the ducts hy trachomatous in

Bleph\_rophimo-is is caused by the acute swelling engendered by the hypertrophied papillæ the gelatinoid granulations and the engarged muco-a In the later stages excatrical contraction of the con

junctiva, tarsal cartilage and total lid structure adds to the complications The ensuing entropion with trichiasis and the consequent lid friction finally result in multiple ulcers or in pannus limited to the area of pressure contact These corneal lesions will drappear when the hid tension is properly relieved

Lachrymal obstruction causes simple epiphora or the regargitation of septic secretions. To this may be added the infectious conjunctival dicharge and the hypersecretion of tears from the lachrymal gland This excess of moisture stimulates the growth of polypo d granulations on the conjunctival surface and adds to the maceration that generally follows the corneal ero ion caused he lid friction. This lachrymal secretion often causes the failure of an operation that would have been successful if the lachn mal lesions had been eliminated

Accordingly the practical problems in the surgery of trachoma narrow down to the correction of lid

friction and lachrymal maceration

Lader the heading Conservative Surgery of Trachoma ' Ziegler describes Knapp's roller operation freezing with carbon dioxide snow canthotomy canthoplasty rapid dilatation of the lathrymal canal galvanocauters puncture for entropion and trichiase and galvanocauters peritomy for pannus

In dr. cus.ing canthotomy he states that the best procedure for relieving the lid tension is cantholysis or ection of the superior canthral ligament. With regard to canthoplasty he says that you Ammon s technique is the one usually employed but that Agrew's addition of cantholysis improves its results

Or the radical surgical procedures he recommends for milder cases von Burow s operation for splitting the tareal cartilage. In extremely chronic cases the Kuhnt Heiltath excision of the tarsal cartilage is Whichever one of these operations is nece ara decided upon at should be preceded or supplemented by canthotomy, galvanocauters puncture and rapid dilatation of the lachrymal canal

L L McCor, M.D.

#### Loeb C Choked Disk and Vitreous Opacities Following Fracture of Skull Am J Ophth 1963 12 184

Following fractures of the skull choked disk is not uncommon retinal hamorrhages are rarer and vitreous opacities are very unusual. Under these con ditions choked disk may not be the result of increased intracranial pressure hat due to hamorrhage into the nerve sheath

Aman 32 years old sustained a fracture of the skull At examination several weeks later the eyes appeared normal externally but the vitreous of both eyes was cloudy, a large blood clot was found in the vitreous. and detachment of the retina was suggested. The disks were in the stage of receding papillædema Several months later the vision of the right eye was normal with the proper correction. One large opac its in the left vitreous prevented a good view of the fundus and caused a diminution of its on

VIRGIL WESCOTT, M D

Rutherford C W Some Essentials of Glioma of the Retina 1m J Ophth 1926 38 lx 171

Rutherford reports the case of a child 11/2 months old whose parents had noted a peculiar appearance in its right pupil. The general examination and history were negative The right eye was blind The pupil was larger and reacted more sluggishly than the left Behind the right lens was a vellowish rounded mass occupying the entire vitreous chamber The diagnosis was choma of the retina The eve was enucleated before extra ocular extension or metasta sis had occurred. The microscope revealed all the essential characteristics of a ghoma of the retina VIEW WASCOTT M D

#### EAR

Gushrie D. The I rognosis of Middle Far Suppura tion in Children Ide thurst If I rate xxxiii Med Chir Soc I dintureb 40

Middle ear suppuration is often regarded as a travial ailment but is a disease of consultrable importance as it is a direct cause of ill he ilth and ilerfness and may even prove fatal. At autopsy at has been found in as many as 80 per cent of infants under a year of - In the vast majority of cases a common cold is

> the tracu ute muldle-enr sumpuration is being in en thor ,3 per cent were afness from two to Scute mastouh

streptococcal in iosis if intracranial Of thirty nine pandition 75 per cent

media ... nronicity is attributed in istant re infection by attents treated in and its media the outlook is were cured and in ischarge were still tren in fifts seven outting regardless

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concludes that Fig 2 1 the more favorable olds in infancy

Infection excessive hamorrhage removed Such homograft have been causes of fast's in adult life prefers silk as a substitute for anyc wire MD

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children between the ages of 7 and 16 years. The tests used were the conversational voice and watch tests. Both were used before operation and repeated after the cavity had been dry and healed for a

keen found that the hearing which remains is to dependent of the duration of the middle ear suppurs tion provided bone conduction is good. The findings at operation have no relationship to the final hearing except when cholesteatomata are present when hear ing tends to be poor. The most favorable operation cavity from the standpoint of hearing is the large dry cavity fined by a thin epithelium. The poorest is the mucous membrane type

Of Leen's patients one third had better hearing and two thirds had poorer hearing one year after the operation. The result was somewhat dependent upon whether the ear was used or not I new theory is needed to explain sound conduction in the absence of the drum and ossicles after a radical mastordec According to Zimmermann's theory which appears to be the most logical sound waves reach the cochlea by way of the promontory the basilar membrane being thus set in motion without the intermediars of the labyrinthine fluid. The car is probably unique in its power of adaptation since after sound waves reach the cochlea by other ways these unusual channels have developed so strikingly that the hearing is excellent

George R Mc Marger M D

#### NOSE AND SINUSES

Shibley G S Hanger F M and Dochez A R Studies on the Common Cold 1 Observations of the Normal Bacterial Flora of the Nose and Throat with Sarlations Occurring During Colds J Exper Med 1926 zhu 415

The studies reported in this article were under taken to obtain an acceptable explanation of the crusation of the common cold

The methods employed in the investigation are described and the findings given in tabular form Cultures of the nose and throat of normal persons were compared with cultures made during colds and the incidence of certain organisms was noted

The normal basic nasal flora includes staphylococ cus albus diphtheroids and in certain persons staphylococcus aureus and citreus transient bacteria are Cram negative cocci and non hæmoly tie streptococci

The normal basic throat flors includes Gram negative even non hamoly tic streptococci and in certain persons large Gram positive cocci bacil lus influenze bacillus \ and diphtheroids Tran sient organisms are staphylococcus albus hemolytic streptococci staphy lococcus aureus and citreus and pneumococci

In the early stages of colds the cultures showed no bactern to which a rôle in the causation of the cold rould be assigned but the basic flora of the nose was

and the throat showed a reduction of

prominence or alterations in predominance of the basic flora

Organisms which were prominent in colds usually as late or secondary invaders, were staphylococcus aureus, hæmolytic streptococci, and bacillus in fluenzæ

There was a striking incidence of hæmolytic strentococci in throat infections

A R HOLLENDER M D

Van Gilse P H G Investigations on the Development of the Sphenoidal Sinus J Laryngol & Olol 1926 xli 137

The sphenod sinus consists of two parts, the neo sinus and the part situated directly behind the an terior wall which the author has named the 'palaiosinus' The palaio sinus develops very early in fetal life

The nose is formed by an ingrowth of epithelium from the surface into the mesenchyme and the resulting cavity becomes connected with the mouth through the primitive choanæ The extension of the ingrowth beyond the posterior part of the primitive choange is the origin of the palaio sinus. In an em bry 0 50 mm in length the nasal cavity is enclosed in 2 cartilaginous capsule the posterior part of which becomes the sinus cupularis posterior or recessus At a further stage the recessus ossifies, forming a bony capsule which surrounds the sinus on all sides On the anterior wall of the recessus there then re mains a narrow opening, the ostium of the later formed sphenoid sinus Pneumatization begins only after the capsule and sphenoid have become fused

In adult life the sphenoid always consists of two parts, the remains of the capsule and the true sinus. The pneumatization is performed by the subepithe lial layer of mucous membrane covering the walls of the palato sinus. When secondary pneumatization is micomplete, a sinus within the sinus may be formed. This is situated so laterally that it may be mistaken for an ethimoid cell.

Absence of the sinus is rare, and a double sinus can occur only with malformation of the nose A double opening in a sinus is due to some pathological condition

The cessation of pneumatization is due to the presence of softer material such as remnants of car thage or connective tissue. Irregularities of the sames may be due to retardation of pneumatization by abnormal conditions of the hone irregularities in fusion of the different parts (rickets) pathological conditions of the mucosa, or ozena

GEORGE R MCAULIFY M D

# PHARYNX

Trotter W The Surgery of Malignant Disease of the Pharynx Bru M J 1926 1 269

In the lary ngophary nx carcinoma usually does not progress with great rapidity, especially if the patient

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llateral circulation is gation of all four main rimed by both the pre r vessels. Following the esection, the retroglandu, the collaterals because, in straight muscles of the neck parated from the gland and vessels are torintrough while are preserved. Statu (Z)

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Diagnostic Criteria of Chronic in with Spec efer Phos. of lood

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#### NECK

Berry Sir J Some Clinical Aspects of Simple Golter with Remarks on Its Causation Lancet 10 6 ccx 260

Berry regards simple goiter not as a hypertrophy of the thyroid but as a degenerative process in which the colloid is increased and the cellular elements are decreased

He states that he does not believe that a lack of sodine is the causative factor in simple or endemic gotter since on numerous occasions when a new water supply was put in in a goiter district and tests showed no radine in the water the mendence of gorter was reduced. In one case the reduction was

from 80 to 2 2 per cent

6

From his experience of thirty five years and visits to nearly every goster section in Europe Berry con cludes that at least in the vast majority of cases the disease is produced through the agency of drinking nater. He does not know what element in the nater is responsible but states that practically all waters that produce gotter contain mineral matter of a calcareous nature ARTHUR L SHREPPLER M D

Felberbrum D and Finesilver B Substernal Thyrold im J II Se 1926 class 18

The authors call attention to the fact that the substernal thyroid is frequently overlooked. In a series of 495 teleroentgenograms made in routine cardiovascular examinations six cases of substernal

thyroid were found

The diagnosis is based upon (1) remote or toxic symptoms induced by hyperactivity of the gland or (2) pressure symptoms Huoroscorue examination is of great aid in differentiating between an intra thoracic goster and a sacculated aneurism of the as cending arch of the rorta An intrathoracic goiter lacks the expansile characteristics of an ancurism and moves with the traches during respiration condition is often symptomics and remains benign for many years

In two of the authors cases minute doses of thy rold crused great symptomatic improvement. When symptoms of mediastinal compression are severe

surgery or deep \ ray treatment may be considered ARTRUR L. SHREFFLER M D.

Hyperthytoldism in Children Dinsmore R S Sure Genee & Obst 1916 din 172

Hyperthyroidism in children is more common than has been suppo ed Its cause is unknown its onset abrupt and its course rapid. No case of hyperthyroidism in a boy under to years of age has been reported In many cases of hyperthy roudism in children there is a history of goiter in other members of the family klein reports three cases of hyper thyroidism following removal of the tonsils In only a few cases is there a history of a directly preceding infection In a small percentage the hyperthyroid ism developed after iodine therapy but disappeared promptly when this treatment was discontinued

The condition is characterized by nervousness followed by enlargement of the thy road gland tachs cardia and exophthalmos Tremor was noted in twenty five of forty eight cases. In sixteen there was a lo s of weight. The pulse averaged 125 and the maximum rate was 162. The basal metabolism rate in children with hyperthyroidism has not been definately established

The treatment of hyperthyroidism in children does not differ essentially from that of hyperthy roidism in adults but the child is apt to be very ill after the operation Careful handling is essential as children with hyperthyroidism are always pour operative risks. As a rule preliminary ligations of the arteries on eparate days should be done three months before thyroidectomy. The thyroid should be removed before foci of infection are attacked MARCUS II HOBART M D

Badylkes S Experimental Thyrotoxicosis The Thyrold and Its Influence on Gastric Secretion (Die experimentelle Thyreotoxikose die Schild druese und the Finfluss auf die Magensekretion) Russkaja Alin 1925 il 199

In order to study the influence of the thyroid on gastric secretion the author conducted investigations on nineteen normal males none of whom showed any disturbance of the endocrine glands or other internal organs and all of whom had a normal gastric scere tion. The comparative studies on the gastric secre tion were made with the aid of a thin tube introduced before the theroid preparation was given and again at the end of the experiment. From nine to twenty four tablets of dried thyroid substance were given by mouth daily until pronounced symptoms of the rotoricosis were demonstrated especially on the part of the cardiovascular system. The administra tion of the thy rold substance was then stopped

In most cases there was a diminution in the gastric secretion-a decrease in the acidity as well as in the quantity of the juice. An increased secretion was found in only 17 5 per cent. The gastric secretion was decreased in the patients who had received large doses of the rold substance and had reacted strongly and was increased in those who reacted weakly Corresponding reports by other investigators writing on myxordema and Busedon's disease led the author to the conclusion that the secretion of the thyroid gland is necessary for gastric secretion. In some persons small doses of the rold substance in crease the secretion whereas large doses diminish YOU TOWERDANY (Z)

Read J M The Prognosis in Exophthalmic Golter 1m J U Se 1926 clxxx 227

Lyophthalmic goiter occurs at all ages and in all parts of the world but its incidence seems to be greatest in goiler districts. It is about nine times more common in females than in males It is prone to run a cyclic course with remissions and recrudes cences and has a tendency toward chromicity though it frequently ends in spontaneous recovers. It presents atypical forms and is associated with an irreducible mortality. Its most constant feature is an increase in the hasal metabolic rate.

Acute cases of evophthalmuc gotter with a well defined onset offer a more favorable prognosis for recovery than those with an insidious onset and symptoms noted for several years before the patient seeks treatment. The height of the basal metabolic rate offers only slight assistance in the estimation of the prognosis. Males with evophthalmuc gotter seem more resistant to treatment and are more apt to become chronic sufferers from the condition than females. Subtotal thy roidectomy nearly always produces a remission of the disease if the patient survives the operation but it does not constitute a cure.

ARTIGIA I. SMEFFLER M. D.

Fitzgerald R R A Comparative Study of the Effect of Two Different Preparations of Iodine Upon the Pre Operative Basal Metabolic Rate in Exophthrilmic Goiter Canadian 31 Ass J , 1296 VI 159

The author reports a companison of the action of Lugol s solution in lowering the pre-operative hasal metaholic rate in exophthalmic goiter with that of resultment of the solution in dilute hydriodic and it is well known that Lugols solution in the pre-operative management of crophthalmic goiter shortens the period necessary for pre-operative rest, renders inoperable cases operable, and nearly climinates the postoperative reaction

Fitzgrald compared two series of cases which were as nearly as possible alike and were treated by one or the other method exclusively. In all of these cases the histopethological changes of exophthalmic gotter were found on microscopic examination of the lihy rold tissue removed at operation. The hasal me tabolic rate was lowered in nearly every case, regardless of the kind of todine used. This rate generally fell gradually to a minimum in from three to fourteen days and then roes slightly and remained approximately constant. The two methods of treat ment produced practically the same decrease in the basal metabolic rate and in about the same length of time.

A minim of Lugol's solution contains approximately, 58 mgm of available iodine and a minim of dulute hydrodic acid 66 mgm of available iodine. It was found necessary to give nearly four times as much resultimed iodine as Lugol's solution to produce the same clinical result. Cyril [GLESPEL M.D.

Gilman P K and Kay W E Total Thyroidectomy in Thyrotoxicosis of the Exophthalmic Type A Preliminary Report Am J W Sc 19 6 clxx 239

Gilman and Kav report ten cases of thyrotoxicosis of the exophthalmic type in which a total thir or dectomy was done the sitety of the parathyroids and recurrent lary ngoal nerves heing insured by shaving the posterior portion of each lateral lobe as close to the capsule as possible. They determined upon this

treatment hecause they believe that in this condition the entire gland is diseased and because they had noted that the postoperative reaction is inversely proportional to the amount of gland removed. It is not difficult to maintain a proper thyroid balance by the administration of a thyroid preparation.

Before the operation the patients were told that they would be obliged to take a certain amount of this roid preputation daily for the remainder of their lives. No difficulty was experienced in obtaining their consent to the operation as all of them had been rendered invalids by the condition

ARTHUR L SHREFFLER, M D

Geiger H The Fate of the Blood Supply of the Thyroid After Thyroidectomy with Special Regard to the Formation of a New Thyroid Capsule (Ucher das Schicksal der Bluttersorgung in Schi ddruesen nach Strumektomie mit Bemer kungen ueber die Bi'ding der neuen Schilddruesen kaped) Battr klin Chr 1925 cxvvin 1583

To determine the fate of the blood supply in the remaining portion of the thyroid gland after partial thyroidectomy the ordinary methods of cadaver examination with injection of the vessels are not sufficient as they show nothing with regard to the formation of collateral vessels. The question as to what vessels are formed and what route is taken by the blood after ligation of the arteries can be answered only by studying the cadavers of persons subjected to thyroidectomy. The author studied four cases

In the first case resection of the lower half of the right lobe of the thy rold had been done eight months previously. In the second, ligation of both inferior arteries ligation of the anterior branch of the right superior artery, and resection of the right lobe of the thyroid had been done eight vears previously. In the third ligation of the vessels of the right side had been followed by resection of the right lobe with division of the isthmus. In the fourth all of the vessels had been ligated on account of evophthalmic gotter nine years previously and the right lobe had been resected later because of recurrence. Death occurred the day after the resection.

The studies made by the author showed that after ligation of single arteries a collateral circulation is formed on the gland. After ligation of all four main arieries anastomoses are formed by both the pre glandular and postglandular vessels. Pollowing the ligation of all vessels and resection the retroglandular vessels form most of the collaterals because, in the operation the short straight miscles of the neck are either divided or separated from the gland and therefore the delicate vessels are torn through while the posterior vessels are preserved. Stam. (2)

Berman L The Diagnostic Criteria of Chronic Parathyroid Insufficiency with Special Reference to the Phosphate Content of the Blood Am J M Sc 1926 Clxu 245

Criteria of chronic parathyroid insufficiency are dystrophies of the hair, nails teeth and skin, me

channel hyperextiability of the nerves as indicated by the Trousseru and Chrosik phenoment electrical hyperintability of the peripheral nerves a decrease of the calcium content of the blood and a decreased phosphate content in the unre with phosphate retention in the tissues and an increa edphosphate content in the blood

The Trousseau phenomenon is produced by the application of a ligature firmly about the apper arm. The pressure should be sufficient to prevent per ception of the pulse. The phenomenon consists in the assumption of the obstetrical hand after from three to fice minutes on stroking of the palm.

The Chyostek phenomenon is the response to mechanical stimulation of the facial nerve at its point of emergence from the parotial gland as the pes ansertinus Arring E. Surgefile M.D.

Miller J W The Treatment of Laryngeal Tuber culosis with the Goerz Wessely Lamp Wed J & Rec 1926 caum 166

Miller reports in some detail his observations of the use of the Wessely lamp in the treatment of tuberculosis of the larj nx by Wessely of Lenna The Wessely lamp is an actignit unit cateon birst especially constructed and impregnated according to the Goerz system by which the greatest concentration of the raws is thrown to one side and made to converge into a cone through the medium of a quartz optic The heat rays are absorbed by a vater tacket connected with the quartz optic

In tuberculosis of the liri in the treatment is ad ministered directly by means of the Suffert universal laryngoscope or a metal lary ngeal mirror. The period of treatment varies from a few weeks to one and one half vers

Miller is of the opinion that in larvingeal tuber culosis this form of treatment heals if it does not actually cure

[ James C. Braswell, M.D.

Jackson C Blastomycosts of the Larynx 4rch

Blastomycosis of the lary nv is a rare di ease but in Jackson's opinion may not be so rare as is sug gested by the paucity of case reports and the failure of terthbooks to mention it Jackson reports one case and cutes two others.

The initial symptoms are hoarseness cough, disphere and disphasia. A positive diagnosis is established only by the discovery of the blactomyces in smears of the sputum or secretions. The condition must be differentiated from lary ngeal tuberculosis in which tuberce beaufit cannot be found.

In the treatment potassium iodide gives good results not only because of its effect on the blasto mycotic lesions but also because of its selective action on the lampaged mucoan

CFORGE K Mc Vester M D

# SURGERY OF THE NERVOUS SYSTEM

# BRAIN AND ITS COVERINGS, CRANIAL NERVES

Conway, J A Two Cases of Cerebral Aneurism Causing Ocular Symptoms, with Notes of Other Cases Brit J Ophth, 1926, x 78

In the diagnosis of cerebral symptoms the possibility that an aneurism of a cerebral vessel may be the cause is rarely taken into consideration. In some cases such an aneurism may give rise to no symptoms that can be recognized clinically and inmany it causes death so suddenly that there is no opportunity for a study of the proformal symptoms. Age gives no clue as to its probable presence or absence as it may occur at any age. There is no particular diathesis or constitutional state which favors its development, suggests it, or differentiates it from other cerebral neoplasms.

Osler found twelve ca és of cerchral ancurism in a Soo autopies at the Montreal General Hospital, and Newton Pitts found nineteen in 0 000 inspections at Guy's Hospital, London Bradford believes the condition is not uncommon, and Featnsieves the condition is not uncommon, and Featnsieves wi'The presence of a saccular ancurism on one of the basal cerebral arteries at hecropy is one of the commonest

pathological findings "

Conway found forty three cases of undoubted cerebral aneurism among 6 325 sections Twenty four of the subjects were males the closest man of 72 years and the youngest a young boy Ten man of 72 years of age The of the subjects were under 25 years of age great majority died from sudden apoplexy without any prodromal symptoms Fifteen showed some warning cerebral symptoms, usually headache and vomiting, but in only seven of these fifteen did the symptoms precede death by more than a few days With the exception of four, all died from rupture of the aneurism Three died from rupture of another cerebral vessel and one from intracrantal pressure Many of the subjects howed ocular symptoms after the onset of cerebral hamorrhage. In no case was the pre ence of a cerebral aneurism suggested as a possible cause of death. A statement regarding the Wassermann reaction was made in only a very few of the case records This is explained by the fact that the majority of the patients were admitted to the hospital in coma and soon died. In only a few of the records was there any mention of syphilis of the vessels The vessel most frequently affected was a branch of the middle cerebral artery Two vessels nere affected in only two cases

The author believes that cerebral aneurisms are of congenital origin. In twenty five of his cases there was no sign of vascular or cardiac disease and no evidence of any other causal agent.

STANLEY J SEEGER, M D

Towne E B Invasion of the Intracranial Venous Sinuses by Meningioma (Dural Endotheli oma) Ann Surg 1926 lxxxii 321

Meningiomata (dural endotheliomata) are encapsulated non metastrisizing tumors which frequently invade the dura and the overlying skull and compress but do not invade the brain. When they do not recur. The hone proliferation helps to localize a tumor over a selent area and is snot a senious complication if the region is accessible to surgery.

Meningiomata arise from nests of arachnoid cells and often from those which accompany the arachnoid will that pierce the dura and project into the venous sinuses. The author has been able to find in the literature only one case of tumor invasion of a vein—a case reported by Cushing. In Cushings case the growth arose from the wall of the superiolongitudinal sinus and invaded the vein without causing thrombosis. Towner penors two cases.

In Towne's first case there was a bilateral parasagittal meningoma which compressed the frontal lobe proliferated in the overlying skull and invaded and occluded the superior longitudinal sinus. The tumor was removed in two stages. Death occurred

three months later

In the second case reported by Towne a mening una of the lark cerebri invaded the interior longitudinal sinus extended into the straight superior longitudinal and right and left lateral sinuses the left internal jugular and innominate veins and the superior vena cava, invaded the perivascular tissues and caused sudden death. This case demonstrated that invasion of the venous system may convert a meningioma which is otherwise favorable for surgery into an irremovable tumor.

Towne concludes that an examination of the adjacent venous sinus is indicated in cases of tumors involving the dura WALTER C BURKET, M D

Taylor A S Partial Neurecromy of the Sensor; Root of the Gasserian Gonglion in Trifacial Neurifgia with Preservation of Corneal Sensa tion Ann Surg 1926 ixxxii 196

Frazer estimates that a postoperative Lernitus develops in greater or less degree in 70 per cent of all patients subjected to complete sensory root neuror omy and believes that in a certain additional per centage of cases corneal complications develop after the patient leaves the hospital Among the causes of this serious complication are the irrequent trauma ta to an insensitive cornea, the drying of the eye following loss of function of the lachry mal gland, 'trophic' changes after injury to the ganglion or the ophthalium enere, the loss of the protection af

forded by the upper lid in those occasional un

explained cases of paralysis of the seventh nerve and disturbances of the little understood sym pathetic innervation

The problem of preserving the corner has been an e pecially acute one in the Peking Clinic China, because of the fact that many of the patients are poor and unable to carry out the directions given Woods suggested that in suitable cases an attempt be made to divide the posterior root partially severing only the fibers supplying the second and third division of the nerve and conserving at least a part of the bundle of fibers which make up the first division He cilled attention to the fact that in every large nerve the component fascicult occupy definite positions in the nerve trunk and that the filers in the posterior root of the trigeminal supplying each main division of the nerve always lie in fixed positions those supplying the first division of the nerve being above and medial those to the second branch next lower and those to the third branch lowest and most lateral

The procedure suggested by Woods was carried out by Taylor in three cases in Peking before France's reports were first seen by him Trainer in a personal communication to the author mentions un published work on the embryodys of the nerve which shows that the first division develops of a septrate nerve. The results of unlotal division of the posterior root of the gaughton individe that the function of the ophthalime division may be retained after permanent distriction of the estimate after the manches.

In the author's three ce es the near dga was most pronounced in the maxill its nerve. In addition to subtotal division of the posterior root, the second division was divided district to the ganglion.

STANLEY I SEEGER M D

#### Sachs E The Radical Treatment of Trigeminal Neurolgia J Mr s restate W 1 1926 xxiii 43

Dachs uses one of two methods of treatment in trageminal neurality (tither alcohol jung citon or radical operation on the jostetici root of the ganghon Ile states that peripheral extrations of the nerveare disfiguring and only palliate e and official do not afford nearly as much or as reduring relief as the alcohol injections. When only one brainch of the nerve is involved an alcohol junction should usually be tried first. As the result of a satisfactory injection of the properties of the same thought not as extensive as the amesileesia produced by a ganglion operation. In only one or two instructs has an alcohol injection given permanent rule I as a rule the pain returns visith from one to two y-tars.

Sachs believes that the attempt to save the fibers of the ophthalme division to word anasthesia of the cornea is a very questionable procedure not only because some of the fibers of the second division may be left uncut but also because pain may develop in the first branch when the two others have been destroyed. Four of his patients developed

facial paralysis after division of the posterior root of the fifth nerve. Although they all recovered from the paralysis, the eye on the affected side was endangered.

Following complete division of the posterior root pain temperature and touch perception is lost but this lo 3 does not extend over the entire area supplied by the fifth nerve because, as there is considerable overlapping by the cervical rerves sensation in the middle of the check remains quite normal In some of his earlier cases Sachs was disturbed by this fact believing it to indicate that he had left some of the third division fibers. In six cases he therefore re operated but in every instance found that he had cut all of the fibers Even when pain temperature and touch percention is lost the deep pressure sense remains in the area supplied by the fifth nerve This form of sensation is carried through the seventh nerve which is of course un disturbed by the operation. Suchs has performed sevents one operations for division of the posterior root of the gasserian ganglion in sixts five patients, with no deaths

He does not believe that there is any advantage in the use of local anythesia in these cases STINLEY J SPECER MD

# Singleton A O Glossophary ngeri Neuralgia and Its Surgical Relief inn Surg 1926 (xxxx) 338

Glossopharungeal neuralga is so similar to trilacial neuralga in the character of the pain and the duration of and internal between the attricks that roost cases are treated with elicoholic injections of the gas cenar ganglion or even extion of the posterior root of the ganglion before suspicion as to the true attricts of the condition is aroused by the failure of these measures to give relief. In Singlition a opinion this, error is due to the failure of tertibook to mentior glossophary ngeal neurilgia and the fact that only wents one cases have been reported in the literature

The pain of glos opharyngeal reurnign is distributed to the tonsility region oral phars or and ear, with a trigger zon, in the tonsilita fossa. The attacks of pain occur chiefly, in the region of the tonsil and pharynx radiate to the ear on the same side and are provisional and very severe. The pain is unduced by swillowing or stimulating the pharynx but not by rubbing the five (fifth receive).

The injection of alcohol cannot be considered in the treatment of glossophira piced in usual gas because of the close provinity of the vagus and the large blod vessels. Extracranial evil into of the neric as done by Adson seems to give relief over a long puriod of time but the operation is complexed and dishcult. In Singleton is case a 3 in incision was made along the anterior border of the strimmistion muscle from the ear downward, the stremmistion muscle from the ear downward, the injugioficial view in lighted and cut, and the posterior belly of the digastric solution. The privitel gland was then pulled forward the stylonhood muscles with the posterior belly of the digastric retracted forward in the digastric retracted forward on the digastric retracted forward and back-hand and

the external carotud artery behind and above these muscles pushed backward. The stylopharyngeus muscle was then visible beneath the angle of the jaw and above the retracted stylophord muscle. The glossopharyngeal nerve, which appeared as a white thread along the lower and anterior border of the stylopharyngeus muscle was grasped and avulsed

and the wound closed without drainage In intracranial division of the nerve as described by Adson an incision is made as for unilateral cere bellar decompression, extending from the spine of the atlas upward to the external occipital protuberance and laterally in a horseshoe shaped curve to the tip of the mastoid The flap of skin and muscle is then reflected and the bone is removed upward and later ally to expose the lateral and sigmoid sinuses and mesially and downward until the external occipital crest, the posterior condyloid foramen and the margin of the foramen magnum are approached The dura is then incised and reflected mesially, and the cerebellar lobe protected by cotton strips is ele vated with an illuminated elevator. Drainage of the posterior cistern or the posterior horn of the later al ventricle may be necessary to displace the cerebel lar lobe easily After elevation of the cerebellar lobe the seventh and eighth cranial nerves are seen enter ing the internal auditory meatus. Inferiorly and somewhat more superficially, the ninth and tenth nerves which are short, pass almost at right angles from the medulla The spinal accessory nerve which is longer, enters the foramen in the upper part and is separated from the vagus by a small dural band less than r mm wide At this point a small right angled ganglion knife is passed between the fibers of the yagus and glossopharyngeal nerves and the glossopharyngcal nerve is sharply sectioned

Singleton's patient has been relieved up to the time of his report WALTER C BURELT, M D

# SPINAL CORD AND ITS COVERINGS

Stetten, DeW An Extramedullary Tumor of the Spinal Cord Simulating Abdominal Malignan cy Ann Surg 1926 Ixxxii 285

Stetten reports a case of intradural extramedullary neutofibroma of the spinal cord at the twelfth the racts egiment. The diagnosis was extremely difficult, the symptoms suggesting an intra abdominal malignant lesion. Although the data of numerous previous examinations were available, it was impossible to arrive at a definite diagnosis before nearly two months of the most careful observation. At operation a tumor measuring 13% by 3% by 3/ in was easily shelled out without damage to the cord. Complete recovery resulted. STANLEY SESER, M.D.

#### PERIPHERAL NERVES

Thearle W II Radical Phrenicotomy for Tuberculosis J Am W Ass 1926 lxxxvi 811

This article is based on sixty two cases of pul monary tuberculosis treated by radical phrenicotomy

during the last thriteen months. In all of these cases the disease was chronic and the lesions were advanced. In sixteen, the phrameotomy was performed as a supplement to thoracoplasty and in cleven as a supplement to artificial pneumothorax. In thirty five, it was done as an independent procedure. Fifty per cent of the patients were henefited, and in 10 per cent the improvement was marked.

Thearle agrees with those thoracic surgeons who warn against the independent use of phrencotomy in advanced pulmonary tuberculosis but believes with Alexander that in some cases of early tuberculosis in which the lesions are mainly unlateral and sanatorium care alone fails to cause improvement it will effect a cure. He concludes from his experience that radical phrencotomy is especially advantageous when it is performed in conjunction with artificial pneumothorax and extrapleural thoracoplasty, and is the surgical procedure primarily indicated in unlateral phthusis with predominantly basal lesions.

STANLEY J SEEGER M D

# Davies H M Phrenic Evulsion as an Aid in the Treatment of Pulmonary Tuberculosis and Bronchiectasis Brit M J 1926 1 315

According to Felts, the phrenic nerve may receive fibers from the nerve to the subclavian muscle and from the hypoglossal, spinal accessory, vagus, or suprascapular nerves, either directly or through the ansa hypogloss. In from no to 25 per cent (68 per cent according to Goetze) of persons there is a double phrenic nerve. The accessory phrenic nerve originates from the fifth cervical lies 3 cm lateral to the true phrenic and frequently runs close with the subclavian nerve to the thorax. It enters the thorax in front of the subclavian vein and joins the true phrenic nerve either where the scalenus anticus attaches to the first inh or at a lower point. After section of the phrenic nerve, diaphragmatic

After section of the phrenic nerve, diaphragmatic tone is completely lost, and when one half of the diaphragm is paralyzed the X-ray shows the dome to be raised in the thorax. On the right side the elevation may be from 4 to 8 cm, and on the left side from 2 to 4 cm. The initial rise is increased during the ensuing weeks as the muscle atrophies

The rise is due partly to the intrathoracic negative pressure, but mainly to the upward force exerted from the abdomen hy the abdominal muscles. When respiration is quiet, the paralyzed dome is immobile. During deep breathing it may rise still higher on inspiration and sink back with expiration (paradoxical movement). The paralysis presents the diaphragmatic pull on the lung and expansion of the lower lobe. When the disease is localized to the base of the lung it produces a partial collapse of that portion, the degree depending upon the extent of adhesions in the costophrenic sulcus. The rest given the lung and the collapse of its hase diminish the towns thrown into the circulation.

Operations to insure complete paralysis of the dome of the diaphragm are the unpopular Goetze operation consisting in division of the nerve as low

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as possible by a long incision made along the poste rior border of the sternocleidomastoid muscle so as to cut off sympathetic fiber to the inferior cervical ganglion exposure of the fifth cervical root through the upper part of the incision and division of the subclavius nerve and phrenic nerve evulsion sug gested by Thiersch and first done by Telix which consists in division of the nerve in the neck with twisting and evulsion of the peripheral end from the thorax If the nerve is completely exulsed the ter minal branches are plucked from the diaphragm but the nerve often breaks at some intrathoracic noint

The dangers of evulsion of the phrenic nerve (largely theoretical) are (1) rupture of the nerve proximal to its juncture with the acce sors branch (2) bleeding from the perseardiophrenic arters (one case) (1) dragging on the subclavian vein by the accessory phrenic loop (4) rupture of adherent pleura and (5) evulsion of the vagus nerve (four cases reported in the literature)

The indications for evulsion of the phrenic nerve

To arrest basal tuberculosis and bronchiec

13515 In association with thoracoplasts to arrest

more extensive pulmonary disease a To assist in controlling more generally extensive advanced or acute pulmonary tuberculosis

4 As an accessory to artificial pneumothorax in the presence of diaphragmatic and pulmonars adhesions or before a lung which has been coffapsed for a long time is permitted to re expand. When the dome of the diaphraem is paralyzed effusions are

less frequent and gas absorption is diminished 5 For symptomatic treatment largh six of the diaphragm makes coughing casier and expectoration freer with consequent reduction of pyrevia and improvement in the general condition. Sauerbruch

successfully treated hiccough by lateral diaphrag matic paralysis

6 As a preliminary to thoracoplasty to test the ability of the healthur lung to do increased work to improve the general condition and to prevent the development of catarrhal signs in the lover lobe As a preliminary to the radical treatment of

tuberculous empyema to reduce the size of the pleural cavity so as to lessen the extent of the sub

sequent operation

8 To prevent bronchiectasis after the imperfect resolution of pneumonia

a To free the heart from the embarrassment sec ondary to extensive pulmonary abrosis and pleuro

pericardial thickening

The author removes the phrenic nerve under local anæsthesia induced with r per cent novocium. The skip incision is made for a distance of a in along the posterior border of the sternocleidomastoid or transversely 2 in. above the clavicle two thirds being lateral and one third mesial to the sterno cleido mastoid muscle. The skin platysma and fascia are divided the sternocleidomastoid is re

tracted messally, the omohyoid is retracted down ward and the fat glands and deep cervical fascia of the scalenus anticus over which the phreme nerve normally crosses obliquely from above downward and mestally are dissected. Care is taken to avoid displacing the nerve with the fascia. The internal jugular vein is retracted to one side. The lower end of the wound is crossed by the superficial and supra scapular vessels. The phrenic nerve may cross the scalenus lower or higher in the neck or run in the substance of the muscle

The nerve is divided at the highest point exposed traction being made with the forceps on the perioh eral end Wells forceps are applied on each suc ceeding length of nerve to prevent retraction in case the nerve should rupture immediately below the traction forceps. When to cm of the nerve has been withdrawn an extra pull will probably tear the filaments from the diaphragm and bring away the entire perve. The patient experiences a sudden jerk at the base of the chest and may gasp and the pulse rate may be accelerated. After the evulsion of the nerve the wound is closed in favers

In one case the removed nerve trunk was to cm iong and the main branch 10 cm making a total length of 40 cm In another case the trunk measured 20 cm and the branches 17 cm a total of 46 cm. Generally the total length is 11 or 12 cm. In three cases after the first 6 in appeared the arterial pulsation was so strong that the nerve was divided as

low as possible without any further traction The author reports briefly twenty cases of evulsion of the phrenic nerve file has performed the opera

tion also in fourtien others

WALTER C BURKET MD

#### SYMPATHETIC NERVES

Winslow N Perlatterial Sympathectomy Ann Sure 2026 Travil 322

In penarterial sympathectomy from 135 to 2 in of the outer coat of the artery is removed. Encircling incisions are made around the vessel at the upper and fower limits of the site chosen for denudation and are connected by a conveniently placed vertical in cision. The cuts if too deep may lead to a trau matic ancurism. The tis ue outlined is stripped off either as a single piece or in thin slices. According to Lembe the break in the continuity of the periarte mal sympathetic plerus is followed by dilatation of the vascular tree distal to the decorticated area and an increase in the blood supply with consequent improvement in the condition of the part

The author performed a periarterial sympathec tomy four times on three patients-three times for thrombo angutis obliterans with gangrene of the toes and once for Ray naud > dicase of the foot The oper ation had no effect on the progress of the disease as an amputation was necessary subsequently in every case The fadure was not due to faulty technique because in every instance the artery contracted to a mere thread throughout the entire extent of the

denuded area and ceased to pulsate both to sight and to touch distal to the operative site, a sign which, according to Lenche, is proof that the decortication

was properly done

In Winslow's opinion the information obtained from the cases so far reported is insufficient to decide the acceptance or rejection of periarterial sympa-The operation seems worthless in senile gangrene ascending neuritis, and erythromelalgia The results are more favorable but undependable in causalgia and trophic ulcers. Although the operation is one of the hest indirect methods of ccuring the prompt cure of varicose ulcers (Jeanneney and Mathey Cornat), the cause of these lesions is unaffect ed and recurrence is likely. Palma produced trophic ulcers in dogs by section of the scratic nerve Sympathectomy of the femoral artery did not hinder the appearance of, nor heal, these trophic ulcers In Palma's opinion the retraction of the sleeve of cicatricial connective tissue which is formed in the artery interfered with the arterial function and led to decrease in the blood supply to the parts distal to the operative site. In some cases an obliterating endarteritis resulted from the vessel wall injury

WALTER C BURKET MD

Sebestyen G The Effect of Periarterial Sympathectomy upon the Circulation of the Blood (Die Wirkung der penartenellen Sympathektomie auf den Blutkreislauf) Ortoss held 1925 law 957

In experiments on dogs and rathits Schestyen exposed the femoral arteries and veins on both sides

and on one side performed a typical pernarterial sympathectomy according to the method of Leriche and Bruening The artery on the other side was left undisturbed. He then ligated and cut the veins on both sides and introduced a cannula into the periph eral stump

It was found that the blood stream on the side on which the sympathectomy was performed was mark edly slower than that on the other side In dogs the flow in the side not operated upon was 1 cm of blood in from eight to ten seconds, whereas in the side operated upon it was I cm in from sixteen to eighteen seconds. When the adventitia was not removed with the knife, but was destroyed by furning nitric acid or carholic acid, the blood flow was not retarded, al though the disturbance in the wall of the blood vessels caused by this method extended much more deeply than that caused by the Leriche and Bruening procedure It therefore appears that the diminution in the speed of the blood stream is due to a spasm of the vessel caused by the traumatic insult associated with the stripping off of the adventitia This effect is transient, however, and followed by dilatation of the vessels and hyperæmia

A study of the hydrogen ion concentration of the blood showed the values to he decidedly decreased in the sympathectomized extremity, falling, on the average from 8 7 to between 7 x and 6 9. This decrease was most marked at the end of the second week. At the end of the third week the differences hetween the two extremites had disappeared

Pólya (Z)

# SURGERY OF THE CHEST

# CHEST WALL AND BREAST

Bunts F E Cysts of the Breast A Statistical Study Ohio State VI J 1926 xxii 09

From a review of the recent literature on cysts of the breast and his experience with 375 cases of this condition Bunts draws the following conclusions I It is probable that all cystic conditions of the

breast are due to the same primary causes therefore a classification of benign cystic conditions is of neither etiological nor clinical importance 2 It is possible that the same etiological factors

that produce rystic conditions of the breast also produce carcinoma but there is no final evidence at the present time that costs of the brea t per se are

proemial in character

3 It appear evident that at least in certain cases cystic conditions of the breast in common with other types of benign tumors may be due to intes tinal toxemia 4 The indicated treatment of cystic conditions

of the breast may be summarized as follows

A In cases of diffuse chronic cystic mastitis in women under 30 years of age a waiting policy may be adopted. After the age of 30 years the breast should be examined at intervals of not more than six months to determine whether there are signs of a recurrence of the cysts or the initiation of a malig nant growth

B Single cysts should be removed and subjected to histological study. If the growth proves to be benign nothing further need be attempted but the patient should be examined at frequent intervals to determine whether there is a cost elsewhere in the same breast or in the other breast

5 In the presence of a cystic condition of the breast the possibility of carcinoma should be borne

in mind RALPH B BETTWAN M D

The Clinical and Pathologico Ana Flscher W tomical Diagnosis of Tumors and Cystic Changes in the Breast (Ueber die klimsche und pathologisch anatomische Burteilung von Ge Brustdruese) Dentsche Zischen Veraenderungen der Brustdruese) Dentsche Zische f Chie 1923 exch 1

In the period from April 1922 when Fischer took over the direction of the Pathological Institute at Rostock up to May 1 1925 he received 3 337 speci mens of pathological material for diagnosis Among these were 300 breast specimens. One hundred and fifty one of the latter showed carcinoma seventy one fibro adenoma ten diffuse fibrosis thirty two. cystic disease twenty one cystic disease and car cinoma four tuberculosis one sarcoma one fibroma two adenoma one simple ulcer and two normal breast tissue

The diagnosis of the clinician and pathologist agreed with regard to 160 specimens (55 per cent) The clinical suspicion of malignancy was confirmed in thirty seven (12 per cent) but disproved in sixty two (21 per cent) The clinical diagnosis was a be night condition but the anatomical diagnosis was malignancy in seven cases (2 3 per cent) The clini cal diagnosis was uncertain and the anatomical diagnosis was a benigh condition in twenty eight cases (o per cent) Accordingly the chief error was the assumption of the presence of a malignant process

The cases of unrecognized carcinoma included three of carcinoma associated with cystic disease of the breast two cases of Paget's disease which were diagnosed clinically as ulcer and eczema and

two cases of fibroma

As the specimens came from various clinics and general practitioners they were not uniformly diagnosed as was the material of MacCarty of the Mayo Clinic Nevertheless Fischer's and Mac Carty s figures agree well with regard to the diagno sis of malignant tumors. In Fischer's benign cases the diagnosis was correct in only 58 per cent

Fischer believes that the macroscopic diagnosis of carcinoma is possible in 85 per cent of the cases

Cystic disease of the breast was found by Fischer in fifty three of the 300 specimens. Most of the subjects were in the fifth decade of life. The young

est was 28 years and the oldest 65 years

In twenty one of the specimens of cystic disease carcinoma was found al o In about balf of the cases Kaufmann's so called perforating prolifera tion was present. In five the tumor was an adeno carcinoma in 51% a carcinoma simplex in two a scirrhous careinoma in four a cornifying carcinoma in one a colloid carcinoma and in two a papillary carcinoma. In twelve of these twenty one cases the diagnosis was made clinically. In six carcinoma was suspected and in three it was not suspected

In the cases of non carcinomatous eyetic disease the condition was diagnosed as benign in sixteen as mafunant in thirteen and as fibroma in three Accordingly carcinoma was suspected in 40 per cent of the cases of benign cystic distase and in 21 per cent of the total number of cases From this it is evident that the diagnosis is very difficult Car cinoma developed in 40 per cent of the cases of

cystic disease of the breast

Fischer discusses the fact that today, cystic mastitis is considered an involutional process. This theory best explains it and its relation to fibrosis It is of course possible that carcinoma and cystic disease of the breast may develop simultaneously as distinct entities Cystic disease of the breast may be also the result of a carcinoma since the penetration

of the cancer may obstruct the excretory ducts and the gland ducts and thereby cause the dilatation It is more probable, however, that the formation of cysts is the cause of cancer formation. This is in dicated by the transition of normal epithelium to atypical epithelial proliferation and to carcinoma and also by certain surgical and other pathological findings

# TRACHEA, LUNGS, AND PLEURA

# Four Cases of Tracheal Tumor J Laryngol & Otol 1926 th 174

The author is inclined to believe that while pri mary tracheal growths are rare, they are more common than is generally supposed. He reports four cases Three of the patients were women between the ages

of 18 and 40 years

Dyspnæa, cough, and occasional hæmoptysis sug gest asthenia and tuberculosis, but an apparently good general condition and the absence of obvious intrathoracic signs and of tubercle bacilli suggest tumor in the tracheobronchial tree and demand endoscopy Because of the occurrence of necrosis after radiation it is questionable whether radiation is advisable when surgical treatment is possible

GEORGE R MCAULIFF M D

Lorey The Value of Contrast Media in the Bronchi for the Demonstration of Bronchlectases (Ueber den Wert der Kontrastfuellung der Bron chien zur Darstellung der Bronchiektasen) Fortschr a d Geb d Roentgenstrahlen 1925 xxxiii 58

In twelve cases the author filled the bronchial tree with contrast media as proposed by Sicard and For estier and found that by this means very satisfactory

roents, enograms could be obtained

After the induction of anæsthesia of the phary nx and larynx and the administration of morphine, a thin tube with a metal olive at its end, similar to a duodenal tube, was introduced into the traches and glided through the vocal tubes into a bronchus under the control of the laryngeal mirror and with the patient in the upright position. An injection of from 25 to 60 c cm of a 40 per cent iodipin solution was then made The bronchi of the upper, middle, or lower lobes were filled by causing the patient to assume different positions during the injection

In none of the cases was this procedure followed by aspiration pneumonia or other complication. On the contrary, the injected iodipin had such a favor able influence upon the severe catarrb that the author believes it probable that other substances might be introduced into the brouchi in this way for

therapeutic purposes

The injected contrast medium is usually coughed up completely within twenty four hours but in some cases a small residue may remain in the bron chus for several weeks

In spite of the high iodine content of the contrast medium, Lorey bas seen only one case of iodism In this case the condition lasted for two days

Lorey believes that the use of contrast media in the bronch should be limited to cases in which it will be of considerable diagnostic and therapeutic value, such as cases of bronchiectasis in which an indication for operation is to be established Bernstein (Z)

Escudero, P Terrada H M and Gallino M M Visualization of Hepatobronchial Fistulae by Retrograde Filling with Iodized Oil (Visuali zacion de las fístulas hepatebronquiales por relleno retrogrado con aceste sodado) Arch argent de en ferm d apar digest , 1925 1, 189

In a case of suppurated echinococcus cyst with a bronchial fistula the author injected to ccm of lipiodol into the cyst through the ninth intercostal space Roentgenograms were then made with the patient in the standing position, in dorsal decubitus,

and in the Trendelenburg position

In the standing position the contrast material was shown collected in the irregular pockets in the bottom of the abscess pouch. In dorsal decubitus it should the extent, shape, and location of the abscess With the patient in the Trendelenburg position, the plate exhibited, after fifteen minutes, the long irregular unbroken course of the fistula leading to the bronchus and presenting at its termina tion or entrance into the bronchus an ampulla like dilatation After a further lapse of fifteen minutes it showed filling of the bronchus as far as the main bronchus and in addition, filling of several of the branches of this bronchus The last roentgenogram, which was made with the patient in the dorsal de cubitus after a fit of coughing showed the right bronchial tree and the abscess cavity practically empty only the terminal portion of the fistulous tract with its ampulla, was visible Other shadows scattered about the right lung were due to a previous attempt to fill the tract of the fistula from above by the method of Sicard and Forestier

JOHN W BRENNAN, M D

Jackson G Suppurative Diseases of the Lung Due to an Inspirated Foreign Body Contrasted with Those of Other Etlology Surg Gynec & Obst 1016 XIII 305

Pulmonary suppuration starting endobronchially and due to the presence of a foreign body is such a mild slow and restricted process as compared with embolic post pneumonic and post influenzal sup purations and manifests such a tendency toward prompt and complete recovery after removal of the foreign body as to suggest the presence of some sort of physiological or structural barrier against the invasion of suppurative processes by the endobron chial route

These characteristics of foreign body suppuration are most marked in cases of metallic foreign bodies, which seem to possess germicidal powers Minus the germicidal powers they are present to a less degree also in cases of other kinds of foreign bodies They are least apparent in cases of vegetable foreign bodies, but even in these the prompt recovery which

almost always occurs if the foreign hody has not been long in the tracheobronchial tree is in marked con trast to the course of lung suppuration due to any other cause than foreign body

Complete recovery in a large series of cases of foreign body suppuration of from ten to thirty six years duration with no other treatment than the removal of the foreign body is so different from the course of pulmonary suppuration due to other causes as to call for a separate classification of sup purations produced by endobronchial foreign bodies

Boldero H E A and Whitby L E H Associated Organisms Causing Empyema Lancet 1026 ccz.

The authors report a case of empyema in which two organisms were associated in the production of the condition the one a mycelium and the other a pneumococcus Alone neither of these organisms was pathogenic to guinea pigs hut together they always produced lesions Clinically the striking feature of the case was the chromicity of the con The empyema probably began after an attack of pneumooia which occurred five months hefore the patient came under the author's observation During the three months the patient was in the hospital he was never very ill and at no time showed marked signs of tovæmia

RALPIT B BETTHAN M D

### GESOPHAGUS AND MEDIASTINUM

Kev E Obstruction of the (Esophagus by a Calci fied Intrathoracic Gland (Passagehindernis in der Speiseroehre durch eine verkalkte intrathorakale Druese) Hyerea Stockholm 1925 lxxxvii 772

In the case reported in this article there was rapidly developing dysphagia The roentgenogram showed a shadow the size of a plum and compression of the esophagus to the diameter of a lead pencil Because of the rapidly progressive loss of weight operation was undertaken with the aid of a positive pressure apparatus the Tiegel Henle method

In front of the esophagus at the upper margin of the lower portion of the trachea a grayish white tumor the size of an apple was found hetween the layers of the pleura. In attempts to peel it out the thin capsule was torn The contents consisting of crumbling masses were scooped out. The capsule which was closely bound to the medial aspect of the pleura was successfully separated except for a very small portion adherent to the trachea The operation was followed by uneventful recovery with complete relief of the dysphagia

The capsule of the tumor consisted of connective tissue Although no tubercle bacilli were found the tumor was considered to he a calcified tubercu lous lymph gland because the \ ray demonstrated old tuberculous changes in the lungs Gerlack (Z)

# SURGERY OF THE ABDOMEN

# ABDOMINAL WALL AND PERITONEUM

Gray H T The Rôle of the Mesentery in Vis ceral Disorders Lancet 1926, ccr, 381

When an inflammatory process involves the mesen tery there is irritation of the pacinian corpuscles and the efferent and afterent nerves. It is because of this involvement that acute appendictus is accompained by pain which produces guarding by abdominal nigidity and by inhibition of the mobility of the box el which allows rest of the inflamed part. When this active inhibition is prolonged, paralytic ileus is produced which causes a rise in the intra abdominal pressure followed by impairment of the circulation as the result of pressure on the veins of the mesen tery. In the treatment it is therefore necessary to diminish the intra abdominal pressure, as hy gastric layage and temporary ileostomy.

Interference with the venous return may produce stercoral ulcers on the anti misenteric horder the capillary area most remote from the main vessels Similarly, distention of the first part of the duode num may cause duodenal ulcer, and tension on the stomach may produce local anzimia followed hy ulcer formation the location of which is dependent upon the type of distention or tension on the blood

vessels

The mesentery is not normally a supporting structure for the viscera. The two mechanisms of visceral support are (1) certain fixed points and (2) intra abdominal pressure. The latter is main tained chiefly by the musculomesenteric reflex which varies with the degree of fixation. When there is a breakdown of the normal visceral support the mesentery assumes this function, the resulting tension on the nerves, blood vessels, and lymphatics causing progressive and far reaching symptoms. The treat ment should be directed toward protecting the mesentery from undue strain. Frequently, this protection can be given only by surgical reconstruction of the defective mechanical support of the viscera.

# GASTRO-INTESTINAL TRACT

LeWald, L T Roentgen Diagnosis of Syphilis of the Stomach Radiology 1926, vi, 138

The author believes that the value of the roent gen ray in the diagnosis of syphilis of the stomach should he emphasized particularly because the other findings are likely not to be conclusive

The presence of a mass achlorhydra and weight loss should never lead to the drignous of gastric cancer unless there are unmistakable roentgen signs of carcinoma. On the other hand, a negative Was sermann reaction and the absence of a history or

signs of syphilis do not exclude the possibility of

The roentgen findings of syphilis of the stomach

are the following
r Dimmished size with rapid emptying of the
stomach and often a compensatory dilatation of the
crophagus

2 A fairly symmetrical deformity, often produc

ing a dumh bell appearance

3 A small tuhular stomach, commonly spoken of as limits plastica"

4 A filling defect more extensive than that of simple ulcer and very similar to that of carcinoma

While definite proof of syphilis of the stomach rests upon the finding of the spirochata pallida in the lesson the roentgen evidence is usually sufficient for a tentative diagnosis. The diagnosis is quickly confirmed by the prompt improvement of the roentgen signs and the symptoms under anti-syphilis treatment. Unnecessary resection of the stomach will therefore he avoided.

One case is cited in which the diagnosis was established by gastroscopic examination with the removal of a section for microscopic examination

CHARLES H HEACOCA, M D

Lenk R Ulcer Therapy as Tried on Niche Ulcers (Ulcustherapie erprobt an Nischenulcerna) Strahlen therapie 10 5, xx 103

The author reviews 100 cases of gastric or duo denal ulcer which were treated with the roentgen ray Definite improvement resulted in 90 per cent, and six of the patients have remained cured for years. In all of the cases so treated the presence of an ulcer was demonstrated roentgenologically without doubt No other treatment hesides the roentgen irradiation was given.

Untoward general phenomena were either entirely absent during the irradiation or only trivial. The ulcer symptoms that disappeared first under the roentgentherapy was the spontaneously occurring spasmodic epigastric pain. The pressure sensation at the site of the ulcer persisted somewhat longer The cessation of epigastric pain is attributed to the spasmolytic action of the rountgen rays The hyper acidity decreased slowly Hæmorrhages were fre quently arrested, an effect attributed to the simul taneous stradiation of the spleen and liver spastic obstipation often associated with ulcer usual ly ceased spontaneously Not infrequently, the niche seen in the roentgenogram soon disappeared Spasm of the circular muscle fibers at the level of the ulcer frequently persisted for a long time Cicatricial processes were not influenced

From one fourth to one third of an ery thema dose was given over an area of the abdomen and an area SILBERBERG (Z)

of the back on four successive days with the use of a zinc filter from 0 3 to 0 5 mm in thickness a 28 cm spark gap and a focal distance of about 30 cm

# Carman R D The Roentgenological Diagnosis of Peptic Ulcer Texas State J M 2026 xxx 599

The one sign on which the diagnosis of gastine under can be made with confidence is the reentigenographic demonstration of the crater of the ulcer the nucleo or its exaggerated form the accessor, pocket. In favorible situations as for example on or near the lesser curvature the inche is visible as a local prominence on the gastine silhouette. When the idear is not the posturor wall the niche may be brought into view as a local density when the gastine walls are approximated by palaption. The accessory pocket usually projects markedly from the lesser curvature and is not and to escape recognition.

Secondary signs of gastric ulcer include retention from the six hour meal which occurs in about half the c. \*s organic or spastic hour regime and the c. \*s organic or spastic hourglass stamach and apsatic distortion of the pylotic segment Secondary signs are corroborative but none is dispositic. Ulcers with inches having a drimeter of 2 5 cm or more are likely to prove malignant those with craters which do not project be outful the gistric out line and are surrounded by a lith overhanging ridge are invanably malignant. On the other hand an ulcer which has all the ro intendior operations and the control of the cont

Bulbar deformity is the most common manifesta ton of duodenal uler. In some cases a definite nuche can be distriguished. When oh truction results from duodenal uler it may be impossible to fill the bulb and visualize it satisfactorily. In such cases the combination of refention and by perperi stalass is diagnostic if the stomach is large and of normal conduct.

# Caylor H D The Healing of the Gastric Ulcer in

The first stage of gastac ulcer is probably the acute hemorrhage in the mucosa and submucosa which grossly may appear as only a red spot with a slight break in the pl. tening membrane. Microscopically there is a did to in the epithelium with fine blood in the excavation and adjacent itssues. This early ulcer is usually cone shaped the apix of the cone being toward the muscularis and the base at the luven of the tom.ch.

The second well known picture of gastra older is the chronic U shaped lesson the walls of which are composed of fibrous connective usine instituted with jmphocy tes plasma cells leucocytes and mast cells. The base of the diect contains connective tissue and occasionally an organizing thrinous caudate granu lation tissue and necrotic material.

Blood vessels in the deeper tissues of the wall opposite the defect may be thrombo ed or contain canalized through At the edges of the ulcer the

epithchal cells flatten and attempt to cover the denuded area

In the final stage after the gastric ulcer is haled there is a pile pink to gray sear covered by mucous membrane. The epithelium topping the scar is a thin layer are deformed cystic glands and surrounding these there is fibrous connective tissue molificated with inflammatory cells. The muscularis is replaced by fibrous tissue.

The author describes the pathological appearance of a duodenal ulcer excised at operation which measured 6 by 3 by 1 mm In the base of this lesion there was an organizing fibrinous exudate the edges of the cavity the epithelial cells were flattened and apparently attempting to grow down and cover the excavation The gastric ulcer revealed unusual changes. In the base of the cavity and almost filling it was a raised gray to pink area. Im mediately after it was photographed the ulcer was put into 10 percent formalin and later serial sections were cut Preparations from the margin of the exca vation contained a raised plateau 'or mushroom of granulation tissue covered by a single layer of flat tened gastric epithelium. Acarer the center of the uleer there was a definite break in the mucosa with an organizing hamorrhage in the ulcer cavity Con tinuing toward the center of the ulcer more advanced organization of the blood clot was revealed with the development of blood vessels in the clot and the adjacent to sue in the base of the ulcer A definite plateau had developed in the ulcer as described by Mann In some areas the epithelium at the margin of the defect had lost its columnar character becoming cuboidal and had apparently grown out on this granulation tissue bed and up the sides of the mush room. In some remons of the picer there were many concentric organizing homorrhages. At one point in the ulcer cavity there was free blood with an abrupt fault of the epithelium and tearing loose of granula tion tissue Gram stains of sections of tissue from the ulcer made according to Rosenows technique revealed many Gram positive diplococci in the deeper gr nulations of the ulcer Distant from the ulcer no organisms were found except on the surface of the mucosa Rosenow and others have observed morphologically similar organisms in peptic ulcers in man

Pasman R E The Surgery of Gastrocolic Fistula Following Gastro Enterostomy (Crugía de la fístula gastro cólica consecutiva a gastro enteros tomía) Rev di crivit Buenos Aires 1026 y 43

In a case in which a gastro jejinal ulcer (nost operative jejinal ulcer) in the region of a gastro enterostomy orifice into the colon had evidually perforated an appendiositomy was done to purmit cleaning of the circum and colon. The portion of the colon from the cecum to the point of stenosis at the gastrojejinal anastomosis in the curter of the transerse colon was distended and filled with fecal material of a pasts consistency, while the portion

distal to the point of anastomosis was empty and greatly decreased in caliber

After twenty days of detary measures and daily lavage of the right or proximal section of the colon through the appendicular fistula with several liters of water containing a small amount of sodium subplate the general condition showed marked improvement. The author states that he is at a loss to explain the associated decrease in the gastrogenic diarrhea, unless it can be attributed to the improved adaptation of the colon resulting from a decrease in

the size of its dilated lumen
Operation revealed cicatricial narrowing of the
pilorus and dilatation of the entire small intestine
and of the large intestine proximal to the middle of
the transverse colon. Since peptic ulcer is rare when
the pilorus functions well, the author performed a
gastroduodenostomy by Balfour's method, establish
ing a wide communication from the stomach into the
duodenum through the pilorus. He then closed the
gastro enterostomy openings separately. The open
ing into the colon was so large that resection of a
portion of the colon seemed preferable to simple
closure. The results five months after the operation
were excellent.

# Horsley J S Partial Gastrectomy Its Indica tions Prophylaxis and Technique J Am M Ass 1926, lxxvvi 664

Two lessons in which gastrectomy is indicated are malignancy and peptic ulcer with its complications and sequelæ. The importance of malignancy as an indication admits of no discussion. For peptic ulcer, gastrectomy is indicated when the lesson has recurred after a pyloroplasty or persists after a gastro enterostomy. Jejunal ulcer also is an indication for gastrectomy.

The author describes a modified Billroth I operation in which the stomach is united to the duodenum along the lesser curvature and the lower portion of the gastric-stump is infolded and further protected by the suturing over it of adjacent peritoneal fair. To prevent obstruction an incision from 1 to 1/5 in long is made in the anterior wall of the duodenum to in crease the calibre of the intestine at the point of union with the stomach. Even when as much as balf of the stomach is resected the remainder can be joined to the stump of the duodenum satisfactorily by this procedure. The author has performed the operation ten times.

# Portis S A and Portis B The Effects of Subtotal Gastrectomy on Secretion J Am 31 Ass 1926 IXXXI 836

The studies reported in this article were made on three dogs. A Pawlow pouch was first formed and after a period of analysis of the gastine secretion from hoth the stomach and the pouch, a subtotal gastice tomy was done and the gastine secretion then again analyzed. The operations are described and illustrated.

The following conclusions are drawn

1 The gastne secretion in dogs after a subtotal gastrectomy shows obsence of free acid, but a high combined acidity, whereas the secretion from a Paw low pouch, representing a similar part of the stomach, continues to secrete read after the resection

2 Neutralization is the most important factor ex plaining the absence of free acid observed experimentally and clinically in the gastric secretion after

subtotal gastrectomy

3 The artificial achylia produced may establish an entirely new and possibly harmful bacterial flora in the gastro intestinal tract with consequent gastro intestinal abnormality. J FRANK DOUGHTY M D

# Bahcock, W. W. A Method of Partial Gastrectomy with Telescopic Anastomosis Surg Gynec & Obst. 19 6 th 403

The author believes that end to end anastomosis is the most nearly physiological and anatomical method in partial gastrectomy. The objections to an end to end union between the stomach and duode num are

1 The disproportion in the size of the openings in the stomach and duodenum which causes technical difficulties, especially when large resections are

necessary

mucosa

2 The occurrence of excessive tension with the danger of secondary separation and leakage at the suture line

3 Secondary narrowing of the new opening with obstruction

4 Difficulties in mobilizing the duodenum with danger of hamorrhage leakage or damage to the

pancreas or the pancreatic or biliary ducts

Babcock has employed a method of telescopus ansatomosis in ten cases Instead of making an end to end union of the stomach and duodenum the duodenum is turned mito the open end of the gastric stump after a high resection of the gastric mucous membrane and the outer scrous surface of the duodenum is united to the inner surface of the muscularis of the stomach. The entire thickness of the cut end of the duodenum is united to the asstrict.

This anastomosis has the advantage of strength and mechanical adaptation. The technique is described in detail. HARRY W. Fine, M.D.

# Ross J W Hypertonic Saline Solution in Ady namic Heus Canadian M Ass J, 1926 vvl, 241

The advisability of causing penstalsis in pentom tis depends upon the harm that may be done by absorption of the contents of the quiescent bowel and whether penstalsis will spread the infection so that absorption from a larger area of pentoncum will be futal

McV car has found that ileus associated with a fall in the chlorides a rise in the carbon dioxide combining power, and a rise in the non-protein introgen of the blood. There is a definite indication for the use of salt solution in combating the full in the chlorides and in decreasing the harm produced by it.

Hughson and Scarff have shown that the intra venous administration of hypertonic salt solution delays the absorption of toric products by the gut Incidentally they noted that violent penstalsis began immediately after the injection and continued for an

The author gives the protocols of his experimental work on dogs in which in a gut distended by means of an inflated finger cot peristals soccurred after the

administration of hypertonic solution
Three clinical cases of adynamic ileus are reported
two due to appendictis and one due to a perforated
gastric ulcer All of the patients passed flatus and

Frees after the intravenous administration of hyper tonic saline solution and ultimately recovered even though it seemed that they were moribund I FRANK DOLERTY M.D.

Meyer W The Duodenal Tube in the Post operative Treatment of Gastro Enterostomy

Meyer cites several cases of severe vomiting following gastro enterostomy in which the use of a duodenal tube relieved the vomiting almost immediately and probably saved the patient's life

Med J & Rec 1926 exxitt 304

SAMUEL LAIN M D

Lockhart Mummery J P Diverticulitis and Its Surgical Treatment Lancet 19 6 ccx 437

Diverticulitis is the condition in which secondary inflammatory changes have occurred in hernial protrusions or diverticula in the walls of the colon

Of the authors forty one patients with diver ticulitis twenty five were males. The sigmoid was involved in thirty six cases the transverse colon in three and the ascending colon and creum in one case each.

The ideal surgical treatment is resection of the affected portion with end to end anastomous and temporary excostomy. This can be done however in only a relatively small percentage of cases viz those in which the condition is localized. Colostomy though undesirable in many respects 18 very safe and often is the only rational treatment.

In nine cases the author adopted the less radical procedure of freeing the addressons removing any prominent diverticula and then drawing the dam aged bowel well up onto the ilcum and wrapping about it a fold of omentum

Early diagnosis and treatment may make surgical interference unnecessary EARL G GARSIDE M D

Coffey R C Colonic Polyposis with Engrafted Malignancy Ann Surg 1926 Ixxxii 364

There is probably no benign process with a higher incidence of malignancy than colonic polyposis

Indications for treatment of colonic polyposis are the depleting harmorrhage and diarrhera and the high incidence of malignant change. Non radical palliative treatment comprises exceostomy appen dicostomy irrigations and radium therapy. Radical effective treatment—excision of the polyp bearing area—is limited by technical difficulties and the impossibility of determining the extent of the process

pre operatively

Every disease should be treated on the basis of its pathology It is quite generally conceded that col onic polyposis results from an inflammatory or ulcer ative condition of the mucous membrane of the colon A technique for removing the entire colon including the rectum is described in detail. This operation is done in three stages. An ileostomy is performed first and followed in ten days by resection of the entire colon and sigmoid From ten to fourteen days later a posterior resection of the rectum is done. At first the discharge from the ilcostomy is thin and contains a great deal of bile and intestinal secretion but after an interval of a few weeks or a month the distal loops take on the normal function of absorption of the large intestine and only one or two movements occur a day Thus a normally functioning abdominal mechanism is established

Brown has emphasized the merits of ilcostomy as compared with colostomy. When the distal and proximal loops are sutured together there is no danger of hermiation of the viscera around the ilcostomy.

MERLE R HOON M D

Mayo C II and Hendricks W A Careinoma of the Right Segment of the Colon Inn Surg 1926 bevom 357

The clinical experience with cancer at the Mayo Clinic has been greatly aided by the observations of the pathologists with regard to the changes in the cells and the development of defensive tissue with its effect on cancer cells. All have been viewed with reference to the progress of the patient over a period of years with or without operation or other treat ment The work of MacCarty and Broders on the morphology and differentiation of malignant cells and the relation of these to classification diagnosis and prognosis has done much to establish rational treatment By their method the prognosis with re gard to the probable cure or length of life of a patient with any particular form of cancer can be most accurately ascertained. The surgical treatment of cancer is now much more thorough than it was in Morcover at has been learned that fixed growths and growths with extensive metastasis are best treated by radiation unnecessary surgical mor tality being thus reduced

The factors which should influence the surgeon in the surgeal procedure for terminom of the large bowel are low mortality increased comfort and the satis factory late results. The nentgen ray is a very definite help in the accurate diagnosis and location of tumors of the alimentary tract. Blood stanned mucus or stools are less commonly noticed in cases of tumor of the right large bowel than in cases of tumor of the standard process of the right large bowel than in cases of tumor of the standard process of the right large bowel than in cases of tumor of the standard process of

is an appreciable increase in its size. In certain cases two malignant tumors of different types may be situated in widely separated areas in the large bowel.

For carcinoma at any point from the ileocæcal coil to the hepatic flexure the technique described by the authors consists in removing the right segment of the colon with a few inches of the ileum the excum and ascending colon originate embry ologi cally on the left side of the abdomen and pass up ward across to the right, and down to the iliac fossa, it is clear that the nerves and vessels are necessarily on the inner side of the colonic mesentery Therefore, in operations on the right segment of the colon the division of the peritoneum should be made on the white line of attachment of the outer mesen tene leaf to the parietal peritoneum as this greatly simplifies the operative work. If the bowel in the area of the tumor is movable a radical operation is advisable. The ilcorrecal coil and right segment of the colon are hest removed and the ilcum united to the transverse colon. At times, resection is done in two stages the primary step being ileocolostomy The authors prefer an end to side union of the ilcum with the transverse colon. They state that this proeedure is ideal for the use of the Murphy button The technique of the resection and anastomosis are described The transverse end of the colon is in corporated in the lower angle of the wound with cat gut guides leading from the purse string of the seg mented large bowel If gas distention occurs within four days, the bowel may be punctured, the catgut being used as a guide to the closed end of the large ls nod

The authors give statistics concerning 37 patients with earcinoma of the right segment of the colon who have undergone operation. In a great number of these cases resection was inadvisable be cause of metastasias. Some of the patients are still living four, eight and mine years after the operation At best, the results of operation for earcinoma are not satisfactory, but death is inevitable if the carcinoma assistances.

is not removed

Filtration from the liver is so perfect that care noma cells are not passed into the portal vein and as a consequence the liver is involved later in cases of carcinoma of the right segment of the colon than in cases of carcinoma of the left and lower segments. In the presence of an ulcerated carcinoma the few lymph nodes along the large bowel may become enlarged but this enlargement may be due to inflammatory changes and therefore does not necessarily indicate innocetability.

Dzialoswynski A Gangrene of the Transverse Colon First Report of a Cured Case (Gangraen des Colon transversum erstmalige Beobachtung eines geheilten Falles) Zentralbi f Chir 1925 in 2120 C

Gangrene of the transverse colon has been repeatedly observed following resection of the stomach after ligation of the middle colic artery or one of its main branches It may result also from separation

of the adherent mesocolon in the immediate vicinity of the intestinal tube and resection of quite a large portion of the mesocolon without ligation of one of the larger blood vessels and without separation of the intestine from its mesentery. In all of the cases of gangrene the colon which have been reported in the literature the condition was fatal

The author reports a case of necrosis of the colon without ligation of the colic artery in which a cure resulted The patient was a 23 year old woman who, on Scotember 30, 1022, was subjected to an anterior gastro enterostomy for ulcer of the duodenum On October 26, 1923, an extensive resection of the Kroenlein Mikulicz type was done for peptic ulcer of the jejunum. The patient was discharged from the bospital with a fistula and was operated upon for closure of the fistula on June 6, 1924 The fistula was caused by two tumors of the mesocolon one the size of a walnut and the other that of a hen's eggwithin which ofd ligatures were demonstrable. Both tumors were extirpated, care being taken to protect the middle colic artery On June 17, 1924 when the opening of an abscess became necessary, the entire transverse colon was found necrotic. On September 8 1024 the ileum was anastomosed to the descending colon On November 4 1924 the colonie stomata, which had become approximated by cleatricial eon tractions were closed. After a smooth recovery the patient was discharged on November 20, 1024, with good intestinal function LALB (Z)

#### LIVER, GALL BLADDER, PANCREAS, AND SPLEEN

Vesell H and Sherwin C P Testing of Liver Function Detoxication by the I iver Arch Int Med 1926 XXXVII, 257

The liver has a most complex physiology. It plays an important role in the metabolism of proteins, carbohydrates and fats, it helps form bile pigments and bile salts and it performs detorication work. Because of its multiple functions, its condition in any normal or pathological case cannot be determined by means of a single functional test. Experiments have shown that certain chemical and metabolic reactions may at times be limited to a single species.

The authors studied the acetylation of para aminobenzous and which occurs in the liver in the normal human body. The test is described in detail, but the quantitutive chemical estimation of para aminobenzous and in the urine is too cumbersome for use as a clinical method even if it should prove satisfactor, otherwise.

The test was applied to cases of cholecystitis, carthosis, carcinoma, and abscess of the liver, catar rhal jaundice, and carcinoma of the head of the pancreas. These cases presented symptoms of impairment of the function of the liver and all showed decreased acetylation. Serious renal and cardiac tion in the liver.

The results in general indicate that severe liver damage gives low readings (zero in two carcinoma cases) and that milder liver involvement gives only slightly lowered readings CVEIL J GLASPEL M D

Richter H M Cholecystography J im W 4ss 1926 lxxxvi 937

While appreciating the great value of cholecys tography in cases of advanced gail hadder disease in which the history is atypical or difficult to obtain the author warns against a source of error in the interpretation of the normal shadow and calls attention to a peculiar psychological process by which the method may cause confusion. The source of error lies in the fact that we are likely to interpret gall tract infection in terms of gall stones and ad vanced pathological changes.

It has been estimated that the patient with gall stones comes to operation after an inverage of approximately twenty years of incubation and development of his infection. Therefore it gall bladder disease is interpreted in terms of the early pathological changes with early symptoms of evtragastine dyspepsia at which stage it is often possible to diagnose the condition from the his tory alone not only must cholecy stography fail but the clear cut room genogram of the gall bladder which is typically normal at that stage directs attention may from this vigen as the source of the trouble

Gall bladder infection is recognizable clinically in a large percentage of cases before stones are present and long before the gross appearance of the organ is greatly changed or gall bladder function is materially or persistently deranged

J FRANK DOUGHTY M D

#### Levyn L and Aaron A H Cholecystography by the Oral Method Radiology 1926 vi 04

When the dye used for cholecystography is given hy way of the alimentary tract the peculiarities of the portal circulation are such as to compel most of the absorbed products to pass through the liver prior to their discharge into the systemic blood stream Direct intravenous injection involves difficulties of technique with the possibility of local injury to the peripheral blood vessels at the site of operation Other disadvantages of the latter method are the danger of bacterial contamination and the fact that the vehicle as well as the drug is immediately foreign to the blood. The intravenous injection of a large variety of substances was found to cause definite and important changes in the arterial blood accompanied as a rule by disturbances in physiological function In experimental animals disturbances in these proc esses were indicated by changes in the blood pres sure and the pulse and respiratory rates ranging from moderate to profound and resulting frequently in collapse and sometimes in death

Levyn and Aaron therefore carried out experiments in the hope of securing some type of protected capsule which would allow better absorption of the dye interference with which is due largely to a

chemical reaction. Tetra iodophenolphihalein so dium salt is very readily soluble in water but in the presence of mineral acid such as hydrochloric acid the free acid of the tetra iodo is formed which appears as a white sediment and is highly insoluble in water.

If the sodium salt is given directly into the stom ach the acid gastric juice immediately converts the salt to the insoluble free acid. If this free acid passes on into the intestines the alkalinity of the intestinal fluid is not sufficient to convert the free acid to the soluble salt again and the desired result cannot he obtained.

The oral method of administering the dye has the distinct advantage of simplicity and none of the distinct advantage of simplicity and none of the dangers of the intravenous method. In doubtful cases examinations may be easily repeated. Diag mostic interferences may be drawn as from the ysual zation produced by the intravenous method. Unlarge numbers of operative and pathological reports have established the significance of marked variations in the emptying time and a mottled appearance of the gall bladder the diagnosis of gall bladder disease should not be based on these findings alone. A correct interpretation of visualization and non wisualization will be attained only as the result of collaboration between the pathologist roentgenologist and surgeon.

The chief purpose of this article is to report what to the author has proved the best and simplest method of administering the dye orally eliminating the uncertainties of the use of chemically hardened capsules affording the greatest degree of protection against the acid of the gastine juice and making available for absorption the largest amount of the

dye.

All patients subjected to cholecy stography should have their chest screened because restricted dia phragmatic excursion causes diminished pressure on the liver during inspiration thereby mechanically delaying the emptying time of the gall hladder at times it is possible to demonstrate adhesions b tween the gall hladder and the anterior abdominal wall. If the position of the gall bladder is the same after deep inspiration as after expiration we would assume that it is fixed probably to the abdominal vall because normally the gall bladder will be seen considerably lower after deep inspiration than follow in the control of t

Graham E A Cofe W H Copher G H and Moore S Simultaneous Chiclecystography and Tests of Hepatic and Renal Functions by a Single New Substance Sodium Phenol tetra Iodophthalein Preliminary Report J Am M At 325 18:even 467

The sodium salt of phenoltetra iodophthalem an somer of tetra iodophenolphthalem not only ren ders the gall hladder visible in the roentgenogram hut stams the blood serum sufficiently for its detec tion after alkalımızation probahly by a test similar to the Rosenthal test and is excreted by the kidneys in sufficient quantities to permit its recognition colori metrically in the urine after alkalinization

Therefore if the substance can be obtained in sufficient quantities it may be possible so to standard ize the technique that cholecy stography and tests of hepatic and renal function may he made simul taneously. Makeus H Honar M D

Habbe E and Smith L A Unusual Bile Duct Visualization by Roentgenograms of Barium Meal Report of a Case J Am V Ass 19 6 [xxxv] 4.6

In the case reported by the authors the intra hepatic ducts were filled by the harium meal, evi dently through a spontaneous cholecystoduodenos tomy, and were clearly visible in the roentgenogram

The authors helieve that the bile ducts may be filled in a similar manner by the duodenal contents after meals, particularly when the patient hes down after eating. The retention of the barium in the ducts indicates that food material with its accompanying hacterial content must he present in the bile ducts at all times.

Although in the case reported the marked ab normality has probably been present for five years it bas caused no functional change so far as can be determined by the usual liver function tests

Such cases are rare, but a few have been reported in the literature . Marcus H Hobart, M D

Cushing E II and Stout A P Gaucher's Disease with the Report of a Case Showing Bone Dis integration and Joint Involvement Arch Surg. 10 6 til 530

The purpose of this article is to present the clinical features of Gaucher's disease and to attempt to evaluate the results of splenectomy as a therapeutic

A review of the literature reveals only forty four authentic cases of the condition Personal information of unreported cases allows the authors to sum marize five others. Of these two cases which were treated at the Presby tenan Hospital, New York, are reported in detail

Gaucher's splenomegal, occurs most frequently in women and children. It is characterized by enlarge ment of the spleen bronzing of the skin anemia, and a marked hierorrhagic tendency. The pathological picture is characterized by the presence in the spleen liver, lymph nodes and bone marrow of large round or polygonal cells with one or more nuclei.

The first case reported by the authors was that of somma nged 29 years whose condition was diag nosed as Bantis disease and treated by splenectomy. After the operation the patient gained slightly in weight. There was no change in the number of red blood cells, but the white cells increased from 5 000 to 5000. The postoperative record of the case covers suit; eight monthly.

In the second case that of a woman aged 33 years the condition was accompanied by bone disintegration and joint involvement. Splenectomy was followed.

lowed by a gain in weight of 17 1/2 lb and an increase in the red cells from 1,300 000 to 3,910,000. Later the head and neck of the femur and the acetahulum and joint capsule were resected. The destruction of bone was greatest near the joint. The neck of the femur was quite soft and the hone seemed sandy in consistency. The authors helieve that the gradual atrophy of the head of the femur erosion of the articular cartilages and disintegration of the joint were due to the multiplication of Gaucher's cells within the bone marrow.

Splenectomy is the only treatment attended with any measure of success in Gaucher's disease but there

is no indication that it effects a cure

EARL C GARSIDE M D

#### MISCELLANEOUS

Unger A S and Speiser, M D Congenital Dia phragmatic Herrila with a Report of Seven Cases with Autopsies Am J Roenigenol 1926 v. 135

Disphragmatic hermia are true or false depending upon the presence or absence of a sac. Those of the latter type constitute 87, per cent of congenital hermia. Disphragmatic hermia occur most fre quently through the foramen of Morgagni, the foramen of Bochdalek, and the essophageal hatus. They occur on the left side eight times more fre quently than on the right side. The viscus found most frequently in such bermia is the stomach, but every addominal organ except the genital organs, the bladder and the rectum has heen discovered at least once in the thoracc cavity.

The clinical picture of diaphragmatic herma is very pariable. In some cases symptoms begin soon after birth while in others there may be no symptoms and the condition may be discovered accidentally in adult life. Dyspined is a con mon complaint the degree of which depends upon compression of the lungs. Nausea or vomiting and abdominal pain or colic may occur. Preceding death in the cases of newborn infants, the briathing is very shallow, the cry is very weak, and cyanosis is present. In older persons the respiration is sbort and quick, and the voice may have a peculiar tone. In about one third of the cases reported hickough occurred.

The authors report seven cases in six of which an autopsy was performed. In the seventh case the condition was discovered accidentally in a rocatigen examination for injury of the left humerus. Two of the subjects were newborn infants, two were children x year old, and two were adult males past the third decade of life.

These cases exemplify the authors' classification In cases of the first class death occurs at birth or shortly afterward. In those of the second class the child lives for a few months or years but bas constantly recurring dyspince. In the third class are adults. Adults with the condition are generally healthy, but following a severe strain some of them go into shock, and die suddenly. Others have no

sumptoms t

24

symptoms the condition being discovered during an abdominal operation or \ ray examination \( \text{Fig. G Garsing: M D} \)

Neuhof II Retroperitoneal Sarcoma (Adrenal Tumor?) with Hemorrhage Three Years After Operation Ann Surg 19 6 luxun 290

Neuhof reports the case of a noman to veris old with a history of appendectomy two years previously for recurring abdominal cramps of several months duration. After the operation she felt well for a few months but soon began to have epigastric fullness after meals. At the time of her admission to the hospital for the second time she had lost us lbs in weight Twenty four hours before her admission she was seized with a violent cramp like pain in the right lower quadrant of the abdomen which ancreased in severity and was associated with vomiting. The bowels moved with an enema. On examination a cystic mass was palpated in the mesial and right upper portion of the abdomen. This was about 20 cm in diameter smooth fixed tender and fluctuant The overlying musculature was rigid but general rig idity was absent. The leucocyte count was 21 200

An upper right rectus incision over the bulge re vealed a large bluish mass apparently located in the

transverse mesocolon. When the overlying transverse mesocolon has timesed ap line of cleavage was found through which the mass rould be separated by blunt dissection from the pancreas the right kidney and the third portion of the disodenium. As it was impossible to free the encysted blood clot from the right kidney completely a portion of the upper pole was removed with the retroperational mass. Gauze packing surrounded by a rubber dam was placed in the retroperational space the remainder of the posterior peritoneum was sustured, and the abdomen was closed around the drays.

The removed mass which was spherical consisted of a thin confining membrane enclosing a blood clot Tumor masses were scattered throughout the clot but the attached portion of kidney appeared normal file meroscopic diagnosis, was annessarcoma.

There has the through the same of the coveral months after the operation. The patient has gained so life and has remained in perfect health up to the present time two years after the operation. Although the was no microscopic evidence that the tumor arose from the adrenal the author is of the opinion that it was of adrered origin because the clinical picture was very similar to that of an adrenal tumor with harmor thage.

### GYNECOLOGY

#### UTERUS

Clark, J. G. and Ferguson, L. K. A Cystogram. Study of Cystocele and Prolapsus. Surg. Clin. N. Am., 1026, vi., 70

Cystography is probably the most impressive and convincing method of showing the deformity of the bladder that occurrs in cystocele and descensus and the degree of anatomical reposition of the bladder obtained by various operations in these cases It furnishes a perminent and exact record which can be referred to and used as a standard in subsequent examinations and therefore will show which of the various operative procedures gives the most lasting results

A plate is first made with the patient in the prone position. The catheter is then removed and a second plate is made with the vertical fluoroscope. The patient is then requested to empty her bladder completely and a second examination is made with the vertical fluoroscope for residual urine.

If any residual urine is found, a third vertical plate

is made

After the operation the procedure is repeated after an interval of from eighteen to twenty days, and when possible, a year or more after the patient's discharge from the hospital The procedure is entirely harmless

The authors report eight cases with pre operative and postoperative cystograms showing the position and shape of the bladder ROLAND S CRON M D

Gaenssle, H. The Results of Operation for Prolapse (Ucber Ergebnisse der Prolapsoperation) Monaisschr f Geburish u Gynack, 1925 1xx 295

Suture of the pelvic floor is usually preceded by plastic work anteriorly and separate suture of the vesicovaginal septum. In cases of insufficiency of the sphincter of the bladder with urmary incontinuous estimates are sufficiently of the sphincter is brought together with toter rupted sutures. Because of the good results which have been obtained in this manner it has never been necessary to employ the Goebel Stoeckel plastic operation on the pyramidalis. After a properly per formed operation for prolapse, the hypertrophicd portion will become normal in size without any fur their treatment.

In Selheim's plastic operation on the pelvic floor the levators are sutured separately and over them the constrictor cunn is sevied in two layers and the skin is sutured separately. If the operation is not performed in the immediate premenstrual or post menstrual period there is little bleeding. The tech inque is not particularly difficult. The operation is performed preferably under lumbar ansesthesia Follow up studies indicate that the results are better

in untreated cases of anteflexion and retroflexion than in those in which postural methods have been used Consideration of the position of the uterus is not necessary

By Sellheim's method, total prolapse may be operated upon as well as slight discensus. Ten per cent of the completely cured women have had re peated pregnancies some of them have been delivered as many as four times. Careful management of the labor is necessary. If the head remains on the pelvic floor, forceps should be applied and a longitudinal incision should be made through the old scan and sutured immediately after labor. The author be heves that a cure may be obtained in 90 per cent of the cases.

Violet and Michon Adenomyomata of the Uterus and Ovarles (Les adenomyomes de l'uterus et des ovarres) Gynée et obst 10 5 311 403

Adenomyomata of the uterine cornua and the round ligaments are discussed. A case is reported in which an adenomyoma appeared in the abdominal wall following ventral fixation by the round liga Adenomyomata of the subserous variety ment form the only true cysts of uterine origin. Interstitial adenomyomata are common They occur dif fusely beneath the mucosa, a condition called by the author 'adenomy ometritis" and as localized tumors apparently due to extension from the glands of the normal subjacent mucosa. They fre quently penetrate to the peritoneal surface, causing fibrin deposits and the adhesion of neighboring structures (most frequently the rectum) authors have found them associated with large uterine fibroids and in the form of true ectopic growths

There are two general clinical types the hemor rhagic, associated with profuse metorrhagia and the dysmenorrhatic with severe menstrual disturbances not releved by ordinary measures Adenomyomata of the pouch of Douglas are often tocluded in the latter group. The authors have seen five cases and have collected for The symptoms may resemble those of advanced carcinoma (pain loss of weight etc.) Rectal examination alone gives findings that can be relied upon in the differential diagnosis. A case is cited in which a supravaginal hysterectomy was done but of course failed to give relief

The authors report also a case of endometrial blood cyst of the ovaries and review the various theories as to the pathogenesis of this condition. They are inclined to accept Sampson's theory that it is the result of tubal regurgitation with the trans plantation of endometrial fragments.

GOODRICH S SCHAUFFLER M D

Von Kuettner O Sarcomatous Degeneration of Uterine Myomata (Zur Frage der Umwardlung von Uterusmyomen in Sarkom) Monatsschr f Geburtish u Gynack 1925 Ivv 177

The case reported by the author was that of a 54 year old woman who was admitted to the hospital with the diagnosis of peritonitis or ileus. Eleven years perviously an examination had revealed what was believed to be a cvist the size of an apple in the left or ary. For several weeks the patient had noticed a rapid increase in the size of this tumor and four weeks previously had had an attack of acute pain in the left hypogastrium. The day before her admission to the hospital the pain had recurred and was associated with vomiting and difficulty in the pass size of flatis.

Operation revealed instead of the expected ovarian tumor with a twisted pedicle a cystic tumor attached by a narrow pedicle to the atrophied uterus and containing about 2 liters of necrotic material

mixed with bloody fluid

Although the operation was difficult the patient left the hospital after sixtendays Two months later a recurrence developed The microscopic diagnosis was sarcomatous degeneration of a myoma

In the discussion of this report Henke who examined the tumor in on Kuettner scase microscopically called attention to the relative infrequency of
sacromatous degeneration of my onm. Biemerstated
that if the frequency of such degeneration were as
great as is assumed by Biumm and Warnekros a
considerably greater number of recurrences would
develop after supravaginal amputation. Asch
Acetner Fraenkel Dienst and Mattias were of the
ame opinion. Vartus hased his conclusion on 1 200
amen opinion. Vartus hased his conclusion on 1 200
which sarcoma was found in only themty are (a per
cent)

Frankel called attention to the fact that some tumors considered myomata are sarcomata from the beginning. He reported a case in which an extripated tumor was believed to be a myoma until a recurrence proved it to be a sarcoma. Even the infiltration of a tumor does not always prove its sarcomatous nature koerner reported a case in which a sarcoma with

numerous giant cells penetrated a myoma
Dienst described a submucous myoma the size of a

man's head in which the peripheral Lone consisted of compact tissue while the central part contained cysts art jung in size from that of a cherry to that of a goose egg and showed occasional areas of metaplasia of the tumor cells into cartilagnous tissue

FLESCR (G)

Walther If W E and Peacock C L Gonococcal Endocervicitis South M J 10 6 xix 202

In genococcal endocervicitis amputation of the cervix and cauterization with the actual or electric cautery have been done but this treatment produces scar tissue which seriously interferes with subsequent labors. The authors have found that the genococca may be effectively destroyed without in

jury of the ussues by diathermy. They describe their technique in detail and report the results in twelve acute and twenty six chronic cases. The number of treatments was usually from two to four teen.

The time of an average treatment was ten minutes. The average milliamperage was 500. The treatments were given at intervals of from two to four days until the smears were negative.

I LOWARD BISHKON M D

Becker C Carcinomatous Degeneration of Hetero topic Epithelial Inclusions in the Uterus (Car chomatoese Degeneration heterotoper Epithelein schluesse am Uterus) Zentralbi f Gynack 1923 xlix 2333

In the case of a 54 year-old nulliparous woman who had suffered from hackache and intestinal ca tarrh six months previously the uterus was removed by supravaginal amoutation because of fixed ret roversion Before the amputation could he per formed the liberation of numerous adhesions was The anatomical examination revealed DCCCSSATS in the serosa of the pouch of Douglas on the posterior uterine wall several tumor mas es which had the structure of glandular carcinomata and were ap parently perstoncal metastases. The endometrium was entirely normal. A rectal carcinoma as the source of the smaller tumors was definitely excluded This case is similar to cases described in the litera ture as fibro adenomatous scrositis or scro-epithelial adenomy ositis

Beck r believes it possible that the previous dy menorrheuc disturbances played a part in the etiol ogy of the tumors (passive congestion during the always painful menstruation) that a curettage done five years previously may have crused the di semina tion and implantation of endometrial epithelia in the cul-de sac of Douglas and that atrophy of the tissues due to the menopause which immediately followed the currettage favored the occurrence of malignant degeneration in the implanted cells Soon after the removal of the uterus a nephrectomy was necessary hecause of injury to the ureter leading to pyonephrosis. In the interval between the operations an inoperable carcinoma the size of an apple developed in the cervix FLESCH (G)

Clark J G and Keene F E The Treatment of Carcinoma of the Cervix by irradiation Surg Clin V tm 1926 VI 113

In the treatment of carcinoma of the cervix the authors have always limited themselves to the use of roo mgm of radium element. In only a very few cases have they combined Yray therapy, with the radium treatment. The radium is divided into one capsule of 50 mgm and four needles each containing 1355 mgm. Almost without exception the design burned only in the carcinomations creater or in addition the needles have been inserted into the tissues around the involved area.

In the past few years the application has been made under nitrous oride-oxygen anæsthesia. The patient is told to report within six weeks and the decision as to a second application is made from the appearance of the disease area at that time. Frequently the treatment is not repeated because the carcinomatous area is found to have disappeared apparently completely.

The chief benefit from irradiation comes from the first dose. A very careful selection of cases is necessary since in certain types such as those with wide spread involvement of the base of the hadder, the rectum, or the uterosacral ligaments, radium in sufficient quantities to affect the carcinomatous process favorably will cause extensive necrosis, a rectal or vesical fistula, and very severe pain

In about 65 per cent of the more advanced cases of carcinoma of the cervix the treatment produces a local healing of the process with temporary or permanent cessation of the bleeding and discharge in about 15 per cent the application of radium seems to stimulate the malignant process to greater ac

tivity

Statistics show that in early cases the results of radium treatment are equal if not superior, to those obtain d by radical op ration In Clark's clinic, the radical operation for carcinoma of the cervix has not been performed during the past three years In 214 cases treated during the period from 10to to 1923 the disease was confined to the cervix in only thirteen of these thirteen cases, seven were treated with radium alone and six were treated by high cautery amputation of the cervix and the application of radium In the first group a five year cure was obtained in two (28 5 per cent) while in the second group a five year cure was obtained in five (83 per cent) The authors believe that the combination of radium and the cautery is followed by much better results than the use of one or the other alone

In many clinics the combined use of radium and deep X ray therapy bas been undertaken but the value of this treatment is still to be determined ROLAND S CRON, M D

Petit and Miarion. Accidental Section of the Ureter During Histercetomy for a Large Fibroid in the Right Broad Ligament End to End Suture Over a Ureteral Sound Abdommal Drainage Result After Twenty Months (Section accidentiel de i uretire au cours dune histérectomie pour gros fibrome inclus dans le ligament large droit suture bout à bout sur une sonde urétérale drainage abdominal résultat ungt mois après) Bull et mém Soc naf de chir 1925 li 930

During a hysterectom, performed by Petit the right ureter was accidentally cut about 8 cm above its insertion in the bindder. The ends were approximated over a ureteral sound. Four fine catgut su tures, including all of the coats of the ureter were introduced for coaptation, and between these were introduced four more including only the outer coat of the ureter and four to approximate the tissues.

surrounding the two ends. The rest of the operation was so conducted that abdominal drainage was obtained from the area of the sutures.

On the seventh day after the operation the sound was removed by way of the bladder and on the fitteenth day the drain was removed. A small urmary fistula closed about the thirtieth day after the first ureteral catheterization. Although there was evidence of stricture in the region of the injury progressively larger catheters were used with success at repeated catheterizations over a period of twenty months. Kidney function remained unimpaired.

Marion points out that it is unusual for the uneter to remain permeable and the kidney function to remain unimpaired following such an injury. He cites a case in which damage due to a similar stricture was noted only after nineteen years Marion favors Petit's procedure especially the repeated catheterization of the ureter.

GOODRICH S SCHAUPPLER M D

#### ADNEXAL AND PERIUTERINE CONDITIONS

Shaw W The Fate of the Graafian Folliele in the Human Ovary J Obst & Gynac Brit Emp,

Only a small percentage of the granfan follicles found in the overy at birth undergo ovulation. The majority become a trette. The large lutein cells of the corpus luteium are derived from the granulosa layer of the follicles. The paralutein cells develop from the theca interna layer. It requires about eight months for a corpus luteium to become converted into a corpus albicans. Atretic structures derived from the granfan follicles are the corpus arteticians, the corpus and the corpus fibrosum and the corpus restrictions.

Soimaru Intraperitoneal Hemorrhage from the Rupture of a Lutein Cyst of the Overy (Rupture intraperitoneale de kyste luteinique de lovaire) Bull Soc d'obst et de gynée de Par 1925, xiv 653

Severe intraperitorical hemorrhages may result from other conditions than ectopic pregnancy. In cases reported in the literature the causes included the rupture of a granfian follicle the rupture of expulsion of a corpus literum the rupture of an ovary, a primary cyst, a cyst with a twisted pedicle, or paracystic varices, a malignant tumor, and chronic oophoritis.

Somaru reports a case of rupture of a tubo ovarian cyst Albert F De Groat, M D

Hitzanides E Rupture of a Corpus Luteum C3st Simulating Rupture of an Ectopie Pregnancy (Rupture d un kyste du corps jaune de l'ovaire simulant une grossesse extra uterine rompue) Bull Soc d'obst et de gante de Par 1925 xiv, 656

Contrary to the studies of Forssner and others which tend to show that severe ovarian hæmor rhage occurs only as the result of ectopic pregnancy,

the author believes that such a hæmorrhage is often due to the rupture of a graafian folliele or a lutein cyst simulating an ectopic pregnancy. To prove his contention he cites an illustrative case

A widow 45 years of age who was sterile and had never had an abortion was seized with pain in the lower part of the abdomen. This pain was very severe and persisted for ten days. For the last eighten months before the patient consulted the author she had sufficed from severe metorrdagas which occurred twice monthly and was associated with hot lashes and heridade.

On examination the patient was found pale and thin Abdominal tenderness was present but there was no rigidity. The clinical signs of pregnancy were absent. In the cul de sac was a mass suggesting a

pelvie hæmatocele

At operation the uterus and tubes were removed with a large clot which filled the pouch of Douglas. The source of the harmorrhage was found to he a tear x cm long in a cyst of the right ovary Micro scopic examination showed the cyst to he lined by lutein cells No fetal elem nts could be found

Albert F De Groat M D

Pfeiffer D B and Smyth C M Jr An Ovarian Cyst Twisted on its Fedicle with a Carcinoma of the Sigmoid Discovered Incidentally Surg Clin N Am 1926 v1 207

In a case of ovarian cyst twisted on its pedicle the authors found after removal of the cyst a typical applian ring. a carcinoma of the sigmoid. The growth was readily mobilized with its regional mes entery and brought out through the abdominal wall in the manner described by Mikulica. At the same time the ieles was relieved. No attempt was made to creat, a sphinter. In this procedure there is no danger of sepsis from the primary operation as the bowel is not opened until it is withdrawn from the abdomen.

### OBSTETRICS

#### PREGNANCY AND ITS COMPLICATIONS

Falls, F. H. The Use of the Vaginal Stethoscope in the Early Diagnosis of Pregnancy Am J Obst & Gynec, 1926, v1, 309

The vagunal stethoscope advances the time of herring and counting the fetal heart tones about four weeks therefore making this sign pricede quickening. It is of ad in the diagnosis of placenta prævia death of the fetus in early pregnancy, mole pregnancy and pregnancy complicating uterine fibroids. Fetal movements as well as fetal heart tones can be heard vaginally in the early months of pregnancy. The use of the vaginal sethoscope is of particular value in the cases of women with a very thick abdominal wall which renders auscultation difficult.

E L CORNELL M D

Bridgman E W, and Norwood, V Pulmonary Tuberculosis and Pregnancy Bull Johns Hop kins Hosp Balt 19 6 xxxviii, 83

In a sense of 14,000 cases of pregnancy in an equal number of white and negro women many of whom were multiparæ the obstetrical cards showed that 134 of the patients were grouped as having pulmo nary tuberculosis in one or more of its various forms. This revealed no increase over the expected incidence of pulmonary tuberculosis and the routine physical examination disclosed no alarming incidence of tuberculosis during the period of gestation. There was no evidence that pregnancy in any way promoted the occurrence of the infection. In fifty cases the presence of tuberculosis could not be confirmed.

In seventein cases the history and signs pointed conclusively to pulmonary tuberculosis in an inact trive stage at the time of delivery. These women had the household duties and the care of families to a greater or less extent and helonged to the class which, in general, is unfavorable for the care of tuberculosis. In spite of this fact, seven of the ten patients whose after histories are known were in excellent condition from six months to five years after delivery. It is probable that the wear and tear of their lives would have produced such flare ups whether they had borne infants or not. The authors believe that pregnancy was often concidental.

In thirty one cases of active tuberculosis during pregnancy and at the time of delivery there were four spontaneous premature births, two deaths and two spontaneous abortions in the sixth and fourth months

Twenty three babies were discharged at the end of two weeks in fair condition. Their average birth weight was 2 808 gm, which is definitely below the average for the service and 400 gm below the

average weight of the habies whose mothers had quiescent tuberculous lesions

In the presence of active tuherculosis pregnancy is followed by the death of the mother within one year in fully one hilf of the cases. The prognosis is best in cases of pregnancy with a fibroid type of tuberculosis which are given suitable treatment. In cases of cascous lesions with no antituberculosis ther apy, the condition is apt to be fatal. Even in the cases of patients in whom the condition does not terminate fatally pregnancy is deleterious to the pulmonary condition.

There were twelve cases of active tuherculosis in which a therapeutic abortion was done. Of these twelve patients three could he followed for only two weeks after the operation and therefore we not considered in this report. All of the abortions except one were induced between the second and third months of pregnancy. In the one exception it was induced in the sixth month. Of the remaining nine patients, two (\*2 per cent) were living and in hetter health two were living but not in hetter health and five patients (\$7 per cent) were dead at the end of year.

A comparison of the results in this group with those in a similar group in which abortion was not induced suggests that the operation renders the prognosis less favorable

Abortion was induced also in the cases of seven patients with mattive tuherculosis. All of these patients were doing well at the end of a year, as were also those with mactive tuherculosis who were allowed to go to term.

Nineteen patients were suffering from some other disease besides tuberculosis. In this group the prognosis was poor. When the tuberculosis was inactive, the result depended upon the seventy of the concentant disease. Besides the type of the lesson it was the amount of work and rest in daily life that seemed to control the prognosis.

In the case of a pregnant woman in whom active tuberculosis is found, the tuherculosis should be treated to the utmost and the pregnancy disregarded Rest preferably in a sanatorium, is the treatment for tuberculosis. Attificial termination of pregnancy is not indicated

The infantile mortality in the first year is over so per cent Even if the infants live longer, many of them develop tuherculosis. The intimate contact between mother and young baby nearly alt are sesults in infection of the chief If there is any sign of activity of the tuherculosis in the mother, the child should be taken away and brought up elsewhere until the mother's lesion has become quiescent. The strain of nursing the haby is obviously, harmful to the mother.

Heynemann T. The Differential Diagnosis Between the kidney of Prepianary and Chronic Nephritis in Pregnancy and Between Eelamp sia and True Uzemia. (De Differentialdagnose zwischen Schwangerischaftsners und ehromscher Vephritis in der Schwangerischaft und zwischen Eklampse und echter Uraemie) Zentrali f Gynath 1913 thir 2400.

The differential diagnosis between eclampsis and the tree uremia of prognancy can be made with road siderable certainty. Alost important is the repeated e timation of the blood urea and indican. An aim monicaci door to the breath and the absence of an increase in the specific gravity of the urine when the diagnosis of time is greatly increased justily the diagnosis of time uremia. Uremia is suggested also when there is a history of nephriti

Neground complicating thronic nephritis often gives the potture of a renal affection of pregnancy. There is no sure differential sign. The diagnoss of the kidney of pregnancy is made too often as this condition also may be associated with a high increase in the blood pressure the appearance of erythrocytes in the urine and even with albumnuric retunits. If these symptoms appear in the second half of pregnancy a diagnosis of the nephritis of pregnancy is justified whereas if they appear in the first months of pregnancy the condition must be considered a chronic neighbritis. Signs such as hypertrophy of the left ventricle and albumnuric retinits are to be similarly interpreted.

Rockwood R Mussey R D and Keith N M A Ginical Study of Nephritis in Cases of Pregnancy Surg Gynec & Obst 1926 Alii 342

Many of the toxemias of pregnancy are associated with nephritis and can be classified as are other types of nephritis not necessarily occurring in pregnancy. The classification of Volhard and Fahr is used

The authors review the course of fifty seven cases during pregnancy and the fate of the mothers and infants over a period of three years. They state that both nephritis and toxomia of pregnancy seem to be general diseases affecting the cardiorenal vascular system as a whole

When the toxemia of pregnancy is classified by the method which bolland uses for nephritis a marked difference in the end results is seen. This difference allows the physician to make a more accurate prognosis both as to the mortality among the mothers and as to the fate of the child in subsequent pregnances.

Brannan D and Cohen M Necrosls of the Corpus Luteum of Pregnancy Surg Gyace & Obst 1020 xln 228

The authors report two cases of necrosis of the corpus lateum of pregnancy. The first was that of a primipara who suffered from perincious vomiting in the third month of pregnancy. The illness was acute and progressive, terminating in death forty four days after its onset. The hyperglycams and

glycosuma were doubtless the result of the liberal therapeutic use of glucose solution. The acidosis as revealed by the urinalysis, was obviously due to starvation. Albuminuma was not marked

Besides pulmonary codema, the postmortem exammation revealed uitted of significance, so far as the gross findings were concerned. Microscopically, the most important lesion was extensive congulative necrosis of the corpus luteum. Certain of the lutein cells near the blood vess. is were not greatly altered and seemed to be somewhat protected by their potion. The liver showed fatty changes but not the usual central necross. The kindneys presented very definite parenchy matous degeneration but nothing espectally characteristic.

In the second case also perminous somiting or curred in early pregnancy. The patient was a multipara in the third month of gestation. When she entered the hospital after two weeks of almost constant vomiting she had lost weight and showed evi-

dence of dehydration

Jaundee and a high non protein mittogra content in the blood were unusual factures worthy of note the rapid pulse and the favor were apparently term and phenomena. The high red and white blood cell counts were due no doubt to concentration of the blood from the foss of fluid. The leucopy tosis was possibly associated in part at least with the acute endometries. The slight his pergle command give costume as in the first case are to be attributed to the therapeutic use of destroite.

With the exception of cedema of the lungs and an adenomatous gotter the autopsy findings were not

noteworthy

The pathological findings in the liver while not extensive were definite. There was a moderate degree of fatty change in the central cells and in occasional lobules one or more necrotic cells were observed. The liver was also codemations. The cause of the jaundice remains obscure as the liver damage was not sufficient to explain the pathological contents.

By far the most marked lesion found was the massive necrosis of the copyin literum. Rather extensive inquefaction of the dead litten cells in this case perhaps indicated necrois of longer duration than in the first case. As in the first case the necrosis represented an uncommon local degeneration. No other osarian tissue was affected in either case that occasional capillaries of each corpus litterum were

evidently injured slightly

These two very similar cases of pernicious voniting of pregnancy both terminating in death revealed for the most part a similar diseased condition especially of the corpus luteum. Both presented the rather characteristic fatty changes in the liver but in neither was the liver entanged. Only in the second case were there necrotic central liver cells and these were not numerous. Central liver cells and the ware not numerous. The numerous constant finding in this disease. The frequently found necross of the renal tubular epithelium was absent in both case. The lessions of the kidneys were not characteristic.

heing unlike the degenerative changes occurring in other acute infectious and toxic diseases

CARL H DAVIS, M D

Stander H J, and Peckham, C H Basal Metab olism in the Toxemias of Pregnancy Bull Johns Hopkins Hosp Balt 1926 vxviii 227

The authors have noticed in the latter half of pregnancy a definite elevation in the basal metabolic rate and a return to normal at about the tenth day of the puerperium. The return is gradual and steady

In pre eclamptic toxamia the basal metabolic rate is slightly higher than in normal pregnancy. It returns to the normal level at about the fifteenth day

of the puerperium

Nephritic toxemia is associated with a basal met abolic rate of about + 33 before delivery. This figure is slightly higher than that for the pre celamp tic group. In nephritic toxemia the basal rate tends to remain elevated for a longer time during the puer perium than it does in period before eclampsia

The basal metabolic curve for the eclamptic group is almost identical with the nephritic curve

Basal metabolism determinations are of little aid in differentiating between the various types of tox

æmias of late pregnancy

In normal pregnancy as well as in the different roxemias of pregnancy, there is some factor or factors resulting in an increase in the basal metabolic rate as term is approached a gradual return to normal ensuing during the puerperium. It is prohable that such a factor or factors may be related to the growth of the fetus as well as to a slight increase in the activity of the thyroid gland.

ROLAND S CROY M D

Allen W M Interagglutination of Maternal and Fetal Blood in the Late Toxemias of Pregnancy Bull Johns Hopkins Hosp, Balt 1926 xxxviii 217

The author states that while the interagglutina ton theory may explain the occurrence of eclampsia in pregnancy, and its greater frequency in multiple pregnancy, a relationship of interagglutination to the frequency of eclampsia in primipare and in hydram nos is difficult to visualize and the theory caunot possibly explain the occurrence of eclampsia with hydrid mole since in the majority of instances of the latter abnormality in offerable blood is present. Attention is called also to the fact that the fetal red blood cells are the important element since the fetal serum is generally weak in agglutinis. Although the sera of 21 per cent of a series of 479 women agglutinated the infant's corpuscles the fetal serum never agglutinated the material cells.

The author studied the iso agglutination characteristics of the blood of 375 normal and ro4 toxemic women and their newly horn infants

There was no evidence that incompatibility is more frequent in toxemic than in normal gestation Incompatibility between the blood of the mother and the blood of the infant was present in 20 8 per cent of 375 normal pregnancies and 21 1 per cent of 104 toxemic pregnancies

There was no evidence of specific immunization of the mother against fetal corpuscles

The author believes that the discrepancy between the findings of this and previous work is probably accounted for by the size of the series studied. With a small number of cases the percentage of error and hkethood of coincidence are very great

The study reported yielded no evidence that the late toxemias of pregnancy have their origin in iso agglutination phenomena ROLAND S CRON, M D

Irwin J C The Role of Caesarean Section in the Treatment of Eclampsia California & West Med 19 6 xxis 208

The author presents data which indicate that, as compared with more conservative procedures, cæsa rean section is an unfavorable procedure in the treatment of eclampsia, the mortality rate following the operation heing relatively high

Cæsarean section is indicated only in well ad vanced pregnancy with no cervical dilatation in cases in which other attempts at delivery have failed.

and in cases of contracted pelvis

The abdominal bysterotomy should be chosen for cases at or near term, and the vaginal hysterotomy for those of eclampsia before the seventh month of

gestation

The best results so far reported have been obtained with the conservative treatment of Dullin and Stro ganoff Tbe intravenous injection of ao c cm of ro per cent magnesium sulphate every four to six bours supplemented by the administration of a saline cathartic of simple enema is a comparatively new procedure but most effective. It is hased on the theory that the convulsions and restlessness are due to cedema of the brain. The magnesium sulphate, acting as a duretic, removes the ædema, and acting as a sedative, quiets the restlessness. After its use the blood pressure is lowered, the ædema disappears, and there is marked improvement in the patient's general condition.

Since this procedure has been used in the Los Angeles General Hospital it has been unnecessary to resort to exsarean section in any case of eclampsia treated in that institution

MAGNUS P URNES, M D

#### LABOR AND ITS COMPLICATIONS

Lankford B The Preparation of the External Genitalia for Delivery with Iodine Alcohol A Report of 100 Cases So Treated, with the Bacteriological Results Am J Obst & Gynec, 1925 R 219

In 100 obstetrical cases in which the patient was prepared for delivery with iodine alcohol swahs were taken from the greater and lesser labha and from the skin near the vulva None was taken from directly over the anus although that area was included in the preparation Nine positive cultures were obtained

In seven staphylococci were found in one colon bacilli and staphylococci and in one colon bacilli alone Not one of the patients with a positive culture had a febrile temperature and fever occurred in

only three of the 100 cases Forty five of the patients were primiparæ Thirty three had one rectal examination twenty seven had two, fifteen had three seven had four two had five three had six and two had seven Thirty eight had one vaginal examination in addition to any rectal examinations they may bave bad seven had two

vaginal examinations and one had three. The for ceps were used thirty eight times

The author reviews also 100 obstetrical cases in which the patient was prepared for delivery by shaving and scrubbing with soap and water followed by the application of bichloride of mercury or lysol This group of patients were delivered in the same hospital as the others and during the same period by a number of attending physicians the hospital being an open one Fifty five were primiparæ Thirty eight had one vaginal examination nine had two eight had three and two had five Seventeen had one rectal examination and five had two The forceps were used in fifteen cases. Larerations occurred in forty three and fever in fourteen

E I CORNELL M D

katz H Difficulties In Labor in So Cailed Partial Retroflexion of the Uterus and Their Manage ment in Cases of A vanced Pregnancy (Ueber die Geburtsstoerungen bei sogenannter Retroffe vio uteri partialis und ihre Behandlung in Facilen weit vorgeschrittener Schwangerschaft) Monatsschr f Geburtsk u Gynaek 1925 len 147

The author applies Wertheim's term partial re troflexion of the uterus only to cases in which with primary retroflexion of the organ, the entire fundus or one horn remains incarcerated in the true pelvis Cases of this type are very few especially in the advanced stage of pregnancy Katz reports a case seen in the First Gynecological Clinic in Vienna

The patient was a 36 year old para v In contrast to her previous pregnancies this pregnancy had been associated with considerable pain in the lower ah domen nausea and vomiting and she said that the child was always low down never up When sitting she had the feeling that the contents of her abdomen were being drawn downward and when standing or heading she felt as if the child would come out through the rectum She complained of dyspnora

Examination revealed slight cyanosis of the hips and marked cedema of the evelids and legs The urine showed 2 per cent albumin cylinders and erythrocytes Albuminuric retinitis was present On external examination nothing abnormal could be palpated The child's head appeared to lie on the right side of the fundus The buttocks could not be made out satisfactorily On internal examination the cervix could not be reached

As the fetal heart tones became weaker two days after rupture of the membranes the attempt was

made to introduce a colocury nter This was un successful as it was impossible to introduce the bal loon into the external os above the symphysis pubis without force

The nature of the condition was revealed when the patient was examined under narcosis. As the examining finger entered the shortened cervical canal through the external os with two fingers dilatation it met an obstruction in the region of the posterior part of the internal os This obstruction a very hard transverse spur about 1 1/2 cm high extended into the lumen of the cervical canal The anterior portion of the internal os was soft and dilatable. Over the spur the examining finger passed into a deep pouching of the posterior wall of the uterus which extended down into the posterior vault of the vagina and was strongly adherent to the underlying tissues

The diagnosis was pouching of the posterior uterine wall as the result of adhesions in a primarily

retroflexed uterus

Because of the occasional failure of the fetal heart tones at was decided to terminate the pregnancy by removing the uterus at laparotomy This decision seemed justified also because it appeared that the uterus was diseased and unfit for subsequent preg nancies and because the patient had a weak heart and already had several living children In order to prevent all danger of peritonitis the uterus was re moved unopened. A complete recovery resulted in the usual length of time CONRAD (G)

Stone E L Dilatation of the Cervix Uterl by Means of the Hydrostatic Balloon Am J Obst & Ginec 1926 ti 314

The best means of artificially dilating the cervix of the pregnant uterus has never been establi hed on a perfectly satisfactory hasis. As a consequence the operation is performed in many different ways and has been the subject of considerable controversy

The author finds that the hydrostatic hag is applicable to the greatest number of case types serves well in complications of pregnancy after the fourth month most recurately simulates the physic logical mechanics and best assures the welfare of the E L CORVELL M D mother and child

kellogg F S The Treatment of Placenta Prævia Based on a Study of 303 Consecutive Cases at the Boston Lying In Hospital Am J Obst & Gynec 1926 x: 194

From a study of 303 consecutive cases of placenta prævia the author draws the following conclusions All cases of central and partial placenta prævia are hest treated by low abdominal casarean section whether the haby is viable or non viable living or

Marginal placenta prævia is best treated by Voor hees hag induction

In the cases of moribund or very sick patients with placenta prævia rest should be given bleeding should he controlled by whatever methods necessary in cluding tight packing of the cervix and vagina and pressure over and above the fundus, a transfusion should be given, operation should be performed when the pulse rate and pressure have reacted, and another transfusion should be given postoperatively effort should always be made to determine as nearly as possible how much blood has been lost in order that the same amount may be replaced. A direct transfusion is probably better than the transfusion of citrated blood if time, apparatus, and knowledge of the technique permit. Otherwise a simple citrate transfusion should be given immediately since un questionably a quick, well done citrate transfusion is superior to a poor direct transfusion

The author believes that in many cases a hysterec tomy should be performed following section. The advisability of this operation depends upon the risk of sepsis as indicated by the history, the occurrence of persistent bleeding after the section, and the patient's number of dependent children If the woman has several dependent children and it appears that a hysterectomy would improve her chances of

health, the operation should be done

POLAL in the discussion of this report, stated that partial placenta prævia has been treated with success by waiting and vaginal packing, the mortality in such cases being reduced far below that in cases treated by the introduction of a bag or bipolar version When there is an area of bleeding uterus alongside the placenta control of the bleeding follows rupture of the membranes and firm packing and delivery will occur spontaneously Polak agreed with Kellogg in regard to exsarcan section in cases of central placenta prævia in which the amount of blood lost has not been great the patient is in good condition and the condition of the cervix is good

PORTER called attention to the fact that to in crease the blood pressure by a transfusion before closing the opening through which the blood is lost

is usually a dangerous procedure

E L CORNELL M D

# PUERPERIUM AND ITS COMPLICATIONS

Colebrook L and Fry R M Some I aboratory Investigations in Connection with Puerperal Fever Proc Roy Soc Med Lond 1920 tix Sect Obst & Gypac 31

Streptococcus hæmolyticus is the causative factor in the majority of septicæmias and also predominates in localized puerperal infections. In non septicamic febrile cases an almost pure culture of this organism is obtained from the cervical canal. The organisms most frequently found in the very mild cases are diphtheroid bacilli and staphylococci

The presence of a distinct streptococcus of puer peral fever has not yet been demonstrated regard to the possibility that puerperal infection may have its source in the vagina or rectum the authors state that the streptococcus hæmoly ticus can rarely be cultivated from the rectum of normal women and does not occur in the vagina. Its occurrence is most common in the upper respiratory

tract. The non-hamolytic strentococcus is easily killed by leucocytes and therefore gives rise to little trouble

Because of the presence of a leucocytosis, the re sistance of women in and just after labor tends to be higher than that of bealthy adults generally This leucocytosis protects against infection in the most dangerous period, i.e. the first six hours after labor Therefore, in suspected cases of puerperal infection. a leucocy te count should be made immediately after labor, and if it is below 12,000, a leucocytosis should be induced by an injection of nuclein

The factors which determine whether an infection will remain localized to the pelvis or develop into a blood infection are (1) the virulence of the infecting streptococcus upon human blood and the human organisms (2) the magnitude of the infection and the local condition at the site of infection, and (3) the nationt's resistance

Puerperal septicæmia may be regarded as a disease of leucocytes Knowledge of the number of bacteria ner cubic centimeter of blood is necessary to deter mine the treatment to be adopted and to judge as to

the prognosis

As treatment the authors advocate injection into the uterus of glycerine, hypertonic salt solution or Dal in a solution for the establishment of a continu ous flow through the infected tissues to prevent the stagnation of serous and tissue fluids. They recom mend also blood transfusion and the use of arsenical drugs of the neosalvarsan type

MAGNUS P URNES, M D

I hillips H J The Treatment of Puerperal In fection by Intra Uterine Injections of Glycer ine Proc Roy Soc Med Lond, ro26 xix, Sect Obt & Gynaed 26

A lacerated cervix with an actively suppurating vacing teeming with micro organisms may easily infect the uterine wall or the endometrium

The spread of an acute local infection may be prevented by promoting a flow of lymph through the uterine wall into the uterine cavity

Very satisfactory results have been obtained with glycerine which is a powerful tissue dehydrant, re mains in contact with the tissues for a considerable time because of its viscidity and can be delivered slowly and evenly over the interior surfaces of the

Gynecological preparation is given with attention to individual lesions and cleansing of the cervix and cervical canal A to c c m syringe to which a No 6 soft rubber terminal eyed catheter is attached is filled with pure glycerine. The catheter is pushed up to the fundus and the gly cerine slowly injected Sterile gauze is tied to the free end of the catheter which is pushed into the vagina, the gauze protruding beyond the vulva After six hours the catheter may be removed by traction on the gauze

This injection treatment is given once or twice daily and repeated until all signs of active inflamma-

tion have subsided

Willan R J A Clinical Lecture on Diagnosis by Pyelography Brit M J 19 6 1 409

Pyelograms are best made with the patient on the table on which the catheterization is done A pyelo gram should never be made with the patient under general anysthesia A 135 per cent solution of

sodium jodide is used as the contrast medium Following a review of the normal anatomy of the kidney Willan describes the pathological changes

which cause an alteration in the pyelogram Normally the calyces are grouped into three main

divisions the upper the middle and the lower and the solid medullary cone projects into the pelvic calyx The club shaped outer end of the calyx is indented by the medullary cone

In pyelonephritis there is absorption of the renal pyramid resulting in a knob like cally in the pyelo gram This is especially marked in hydronephrosis

Cases of nephroptosis which show a cupping of the calyces in the pyclogram should be treated medi cally as in such cases there is no back pressure. In cases showing a knobbing of the calyces an obstruc tion is present and nephropexy may be found

In congenital cystic kidneys the pyclogram reveals marked enlargement of both the renal pelvis and the

calvces In tuberculosis of the kidney an abscess is usually formed and may rupture into a caly The contrast substance injected into the kidney pelvis gains en trance to the abscess cavity producing a shadow some distance from that caused by the pelvis and calvees

A hypernephroma invading one or the other pole obliterates the calvees at that pole

A diagnosis of essential hæmaturia is justified when the urine contains blood but no pus or casts and the blood pressure bladder and pyelogram are normal The author reports seven cases supplementing the histories with pyelograms ALTON OCHSNER M D

Hinman F and Morlson D M Experimental Hydronephrosis Arterial Changes in the Pro gressive Hydronephrosis of Rabbits with Com piete Ureteral Obstruction Sure Genec & Obst 1026 xlu 200

In experiments performed by the authors on rabbits the left ureter was double heated and divided and the animals were killed after from seven to sev enty days Two animals were killed at a time. In one only an arterial injection was made and in the other the arterial injection was combined with injection of both ureters

The first injection fluid used consisted of four parts of celloidin solution to rco parts of acctone deeply tinted with alkanin. This solution was in jected at a pressure of 600 mm Hg After mainte nance of the pressure for ten minutes a twenty part celloidin solution was substituted and the pressure then kept between 400 and 500 mm Hg for fully twelve hours During the entire process of injection the specimen was kept immersed in water

When it was desired to obtain pelvic and arterial casts the ureters were injected with a twenty part colorless solution of celloidin at a pressure of about 80 mm Hg

To ensure complete setting of the celluloid injection mass the specimen was kept under water for fully twenty four hours positive pressure being kept up at the points of injection. At the end of that time the specimen was carefully skinned and cor roded in pure hydrochloric acid. After corrosion for from twenty four to forty eight hours the celluloid casts were washed free from the digested tissues with a stream of water

These studies showed that the arterial circulation of the rabbit s kidney is di tributed in two different planes within the parenchyma in relation to the pelvis of the Lidney The main subdivisions of the renal artery pass around circumferentially whereas the finer branches are distributed radially to the

cavity of the pelvis

With the production of hydronephrosis the arterial circulation undergoes two phases of alteration. The first phase which occurs at the onset is relatively short and appears to be due for the most part to a purely mechanical interference. In the second phase which soon supervenes there is in addition to the mechanical interference but consequent upon it a reduction of circulatory function which accelerates the development of hydronephrosis until complete atrophy results

When ureteral obstruction occurs the renal pelvis dilates and this dilatation produces progressive compression of the enveloping parenchyma. Since the finer arterial branches traverse the parenchyma in a direction radial to the cavity of the pelvis they are subjected very early to compression in their long axes and consequently become tortuous and foreshortened

On continued obstruction the organ increases in circumference Consequently all structures pursuing a circumferential course through the parenchyma are subjected to a process of stretching or lengthen ing Since the arteries are elastic tubes they become attenuated and their lumina become smaller. There is then a reduction in the blood supply leading to ischamia loss of tissue tone and progressive atro-HARRY W PLACCEMEYER M D

Hinman F and Vecki M Pyelovenous Back Flow The Fate of Phenolsulphonephthalein in a Normal Renal Pelvis with the Ureter Tied J Urol 1926 zv 267

The authors state that under gradually increasing pressure in the renal pelvis a back flow of the pelvic contents into the renal vein occurs and the back pressure producing it is less than the excretory pres sure When this has once been established it will continue under lower pressure

In experiments on rabbits 2 ccm of phenol sulphonephthalein was injected very slowly into the renal pelvis and the ureter was ligated these animals were sacrificed after twenty four hours three after forty eight hours, two after ninety six bours, and three after one hundred and sixty eight hours

In each group the bladder was catheterized at the end of twenty four and forty eight hours and the amount of dye estimated. The animals were then killed and the dye remaining in the pelvis was estimated. It was found that practically all of the dye disappeared from the pelvis within four days and that very little was left after two days. These findings indicate that an active flow of dye occurred through the completely tied off renal pelvis.

In conclusion the authors state that the content of a closed hydronephrosis is neither cumulative nor stagmant, but undergoes a continuous change, fresh material being secreted by the kidney and the excess being removed by an active re absorption which occurs mainly through py clovenous back flow

J Sydney Riffick, M D

### Bird C E and Moise, T S Pyelovenous Back Flow J Am M Ass, 19 6 lxxxvi 651

The authors have repeated in a modified manner the experiments of Himman and Lee Brown relative to pyelovenous back flow. Their results show that, in the dog s kidney under conditions of gradually increasing intrapelvic pressure ranging from 10 to roo mm Hg, aqueous solutions and suspensions of India ink in physiological sodium chloride solution pass readily from the renal pelvis into the collecting this property of the proper

of Henle into Bowman's capsules Hinman and Lee Brown state that injection of the deeper renal tubules is impossible by way of the ureter, even when a pressure approximating 400 mm Hg is used The phenomenon which they designate 'pyelovenous back flow' they believe occurs under conditions of moderately increased intra pelvic pressure both in the living and in the recently removed kidneys of sheep rabbits and dogs. The authors think it more likely that if a back flow of pelvic contents occurs, the ruptures allowing the flow take place in the areas of apposition of the small tubules of Henle's loops and the convoluted tubules with the large straight and arcuate veins. Their experments do not support the conception of a true pyelovenous back flow John G CHEETHAM M D

#### Schwartz J Polycystic Disease of the Kidneys— Report of Six Cases N Fork State J M 1926 xxvi 231

Schwartz defines polycystic disease of the Lidneys as a congenital malformation in which generally both kidneys show a conglomeration of cysts separated by fibrous septa. The condition was found sixteen times in 10 000 autopsies and ten times in 2429 autopsies. Of the author's six cases, five were those of females and in only three was the diagnosis established clinically. One of the patients, a fully developed in fant born at full term died an hour after brith. This child had a large abdomen with a tumor the size of an orange in each flank. Its mother had had two

other children, one of which died from the same condition

The author's second case was that of a woman 67 years of age who had been treated two years pre viously for nephritis and died of uræmic coma two days after her admission to the hospital Atautops, two large polycyste kaldneys were found

The third case was that of a woman 47 years of age who complained of fever and chills. Examination revealed two irregular masses the size of oranges, which corresponded to the kidneys. The unne contained albumin hy aline and granular casts, pus, and blood. Puncture of the cysts was followed by recovery, but the patient died six months later of uremia.

Case 4 was that of a man or years old who had a large mass in the right side of the abdomen, extend mig from the ribs to the linac crest. The urme con tained no casts or blood, but showed a z z per cent sugar content. At exploratory operation, both kidneys were found to be polycystic. The patient died a few hours later from gas bacillus infection, but no organisms were found by culture.

Case 5 was that of a woman 44 years of age who complained of pain in the lumbar region, headache, nausea vomiting, fever, and a tumor mass on each side corresponding to the kidney. The urine con tained albumin casts blood and pus. The patient died three weeks after her admission to the hospital

The sixth case was that of a 46 year old woman with headache nauses, and multiple abscesses, fever, and two large tumors in the abdomen. The urne showed no casts. The patient died of uræmia one week after her admission to the hospital. Autopsy revealed two large cystic kidness.

Polycystic disease of the Lidneys has been attributed to neoplasms and retention but the theory that it is a congenital condition has been most generally accepted. It has two stages tumor and nephritis

Bilateral tumors corresponding to the kidneys, hypertension and signs of nephritis are pathogno monic. The diagnosis may be confirmed by means of a pyelogram

The prognosis is grave. After the appearance of kidney insufficiency the decline is rapid. If there are no symptoms the patient should have good care but should be let alone.

BENJAMIN F ROLLER, M D

# Kilhane E F Renal Sepsis Associated with Manic Depressive Insanity Am J W Sc 1926 clxx1

In reporting a case of renal sepsis associated with maine depressive insanity, Kilbane emphasizes the importance in all cases of mental disturbance of a complete physical examination for the discovery of some focus of infection or disease which might be re sponsible for the mental condition.

There is no doubt that in the author's case the mental disturbance was due directly to the renal sepsis for after the removal of the diseased kidney

the manic depressive insanity which had been present for over nine months cleared up entirely in nine days

J Sydney Ritter M D

Medlar E M Renal Tuberculosis Clinical and Experimental Bisconsin M J 1926 xxv 59

Mediar believes that renal tuberculosis as seen by the practicing physician is a very late stage if the condition. He studied twenty six cases in the early stages before extensive destruction had occurred and at the same time made a careful scarch for healed lesions. In all but one of the cases pulmo nary lessons were found at autopsy. As it was in possible to section the entire kidney, the specimens found in the stage is the specimens found in the strips were sectioned sensibly. When possible both hidneys were studied but in the majority of the cases only one kidney was obtainable for study.

Mediar states that tuberculous lessons of the kindney are extremely common in long standing pul monary tuberculosis. Tubercle bacilli are brought to the kindney through the blood stream in eight of ten cases in which hoth kindneys could be studied the lessons were bilateral. In the author so opmion, tuberculous infection of the kindney is simply a part of the picture of a hamalogenous distribution of

tubercle bacult

cular conditions

Renal tuberculosis may be present without any chinical manifestation and without the presence of tubercle bacilli in the union. In two of the cases studied there was apparently no macroscopic renal lesion but Medlar believes that if it had been possible to make serial sections of the entire kidney.

tiny lesions would have been found. Six of the cases studied showed scars in the kidney without any active tuberculous lesion and twelve showed scars with definite tuberculous lesion. Such scars do not indicate the nature of the pathological process that preceded them they are the result of a repirative process. It is impossible to find tubercle hacilit or any infectious agents within their boundaries. Their interpretation depends largely upon an understanding of the pathogeness of the various in fectious and noninfectious renal lesions in which the phenomena of inflammation and repair play a part Medilar was careful to rule out lesions which might have been caused by arterioselectors or other was

Some of the stars studied showed moderate bym phocytic militation. In others there were areas of more or less compact old fibrous tissue. In two cases there were bits of old caseous material and in an other case a walled off caseous area was found. In no instance was it possible to demonstrate tubercle bacillin in the lesions or an active inflammatory

In Mediar's opinion the difference in appearance depends upon the age of the reparative process and whether or not caseation had occurred in the original lesion. A point (proving that the scars are healed tuberculous lesions is the simultaneous presence in

the same kidney of scars and definite tuberculous lesions. In cases of long standing pulmonary tuber culosis tubercle bacilli bacteramia occurs at intervals. This would cause lesions of different ages in

the kidneys

Mediar noticed considerable variation in the cyto logical reaction of the tuberculous lesions. This depends wholly upon the number of tubercle bacilli in the lesion. When a large number of tubercle bacilli in were found the lesion resembled an abscess more than a tubercle since polymorphonuclear leucocytes predominated. From the cellular reaction Mediar can predict with a fair degree of accuracy the ease with which tubercle bacilli can be found

The acute type of lesion is the one in which casea tion and ulceration are likely to occur at a later date Such lesions which are very small have been ob served in the glomeruli and in the tissue between the tubercles both in the cortex and in the medullary zone Frequently they show erosion into the adjoin ing tubercles with inflammatory exudate and tuber cle bacilli within the lumen of the tubercle From this fact Medlar concludes that tubercle bacilli may be found in the urine in cases in which only miliary tubercles are present in the kidney When the tubercle hacilli are few and the conditions are unfavorable for tubercle multiplication the typical tuhercle is found. This does not go on to caseation but shows definite evidence of a reparative process Eventually this type of lesion develops fibrous tissue and occasionally it is identified as the lesion of tuberculosis by the presence of a giant cell

From his studies Mediar draws the following con

clusions

Tuberculosis of the kidney is very common in cases of advanced pulmonary tuberculosis The infection is blood home and bilateral in

volvement is undoubtedly the rule

3 Many cases of renal tuherculosis do not give clinical symptoms pointing to such bilateral in

volvement

4 Sufficient evidence is at hand to warrant the
assertion that tub reulous lesions of the kidney may

5 The mode of infection and the distribution of the lesions in the kidney of the guines pig and the human kidney are similar. As the essential organic structure of the kidney in man and the guines pig 18 the same it seems logical to assume that, in clinical cases also the presence of tubercle bacilli in the urine is positive proof of the presence of ulcerative tuberculous lessons in the kidney.

In conclusion Mediar states that nephrectomy should be advised only when there is considerable destruction of the kidacy when tubercle bacilli are found in the unne from that kidney at repeated examinations made at considerable intervals of time when tubercle bacilli are not found in the unne of the opposite kidney at repeated examinations and when proper medical treatment has failed to cause the desired improvement

GILBERT J THOMAS M D

keydel K The Diagnosis and Differential Diag nosis of kidney and Ureteral Stone (Nieremure tersteine hinsichtlich ihrer Diagnose und Differen tialdiagnose) Verhandl d deutsch Gesellsch f Urol 1025 P 04

The author has observed cases of repeated renal colic in which it was impossible to demonstrate one of the usual causes The microscopic examination of the urine was variable, sometimes showing a sediment of uric acid crystals, sometimes a stronger sediment of amorphous earthy phosphates, and occasionally red corpuscles In two of such cases which came to operation definite contraction waves were noted in the exposed kidney pelvis, but no stone or other abnormality was found

Keydel concludes that in cases of this type the colic is due to chemical irritation of the kidney pel vis, especially of the ureter, by an excess of gravel He briefly states the signs that are of aid in the diagnosis True contracted kidney is not infrequent ly associated with phenomena suggesting stone Pain may he caused by a stone left in the ureter after nephrectomy

The article contains hrief case histories

VON HOPPMAN (Z)

Hinman F The Indication of Nephrostomy Pre liminary to Ureterorectoneostomy J Am M Ass 1926 lxxxv1 921

The author discusses the various conditions in which ureteral transplantation is indicated such as exstrophy of the hladder, cancer of the hladder or neighboring organs with extension to the bladder in which cystectomy is necessary accidental ligation of. or injuries to, the lower end of the ureter and tuber culosis of the hladder. It has been found that in cases in which there is extensive tuberculous involve ment of the hladder before the tuberculous Lidney is removed the remaining kidney, although not tuber culous, may develop a progressive hydronephrosis from obstruction due to the contracture and fibrosis

of the hadly infected bladder

The author believes that the hest part of the gut for transplantation of the ureters is the rectum but points out that the unfortunate feature in any ure teral transplantation is that it prevents the surgeon from subsequently treating the kidney or ureter on that side by urological methods Regarding neph rostomy as a preparatory measure to ureteral transplantation he states that such a procedure would be logical in those desperate cases in which although the patient may die after the ureteral transplantation, be will most certainly die if the ureter is not transplanted. He says, The lumbar drainage leaves an avenue of direct treatment and free outlet for the urine from the Lidney matter of fact one could now do as he wished with the lower end of the ureter Such nephrostomy dramage would do away with the danger of early ascending infection and of obstruction from the early ordema during the time of healing thus obviating the need of tubes and their dangers

'Through such a nephrostomy opening after ureteral transplantation the lower ureter can he flushed from above in the natural direction, and, if necessary its lower end gradually dilated by the passage of catheters through the nephrostomy open ing In this treatment of course, catheters should be drawn on through the rectum and not hack hy way of the nephrostomy opening

The author has used preliminary nepbrostomy successfully in two cases of advanced tuberculosis of the bladder He does not believe it is indicated in all cases in which ureteral transplantation is necessary but states that especially when only one kidney remains and the ureter is hypertrophied and dilated it will prove a safeguard that will materially lower the immediate mortality of the procedure and greatly promote its ultimate success

HENRY L SANFORD MID

#### BLADDER, URETHRA, AND PENIS

Rose D k Stages in the Formation of Bladder Diverticulum South If J 10 6 xix 206

As the result of a clinical and histological study of hladder diverticula the author concludes that all diverticula are congenital to the extent that an un protected or direct loose fibrous tissue pathway must be present in the bladder wall before a herma tion can result. The time of life at which diverticula occur is determined by two factors - the area in the bladder wall that is unprotected by criss crossing muscle bundles and intracystic pressure Thus, the formation of diverticula in childhood is dependent chiefly upon the presence of large, unprotected areas in the bladder wall while the formation of diverti cula in old age is due chiefly to increased intracystic pressure the unprotected areas heing smaller The relative absence of muscle in diverticula suggests hermation. When muscle is found it is usually a stray muscle hundle which due to fixation by infec tion or the accidental location of hundles has not shipped down to the hase of the dissecting cellule The usual location of diverticula coincides with the most probable theoretical location. The difference in fixation at the trigone of the male hladder as com pared with the female bladder is an important factor explaining the relatively greater occurrence of diverticula in the male

In one of the author's cases the development of the diverticulum could be plainly seen through the cystoscope merely by increasing the intracystic pressure Early removal of any type of bladder ob struction is especially indicated if a predisposition to diverticulum formation is suggested by the presence of one of its early stages, such as a hallooning cellule JOHN G CHEETHAM M D

Hirsch E W Urethral Mucosa and Glands An Anatomical and Histological Study J Urol 19 6 TV 203

While perhaps a hundred articles are written each year on the treatment of gonorrboea in the male

and while potent drugs are available for such treat

40

ment it still requires a considerable amount of time to kill the gonococcus when it inbabits the urethra One of the most important reasons for this is that the organism grows best under slightly an aerobic conditions and therefore finds within the ure thral glands and lacunæ an ideal site for multiplica

In a review of available textbooks on anatomy, histology venerology and urology in English French German and Latin the author found widely diverse descriptions of the glands and lacung: Few investigators have studied the urethra and many urologists have accepted earlier writings on the assumption that they represented original work. Shaffer's Lehrbuch der Histologie contains an illus tration of the urethral mucosa taken from a text printed in 1856

The author's anatomical and histological study reported in this article was made on urethræ ob tained from four to twenty four hours after death and opened down the ventral surface with the scissors. The number position and size of the la cung were noted Sections 1 cm thick were then made of the entire urethra. Two urethras were not opened but were sectioned throughout their length perpen dicularly to the long axis so that the arrangement of the glands on the walls of the urethra could be studied

Galen described the urethra rather vaguely or perhaps crudely De Graaf in 1668 mentioned a secretion in the normal urethra. This fluid was next mentioned by Littre who described the mucous glands called Littre's glands or glandulæ ure In 1706 Morgagni described the depres sions on the upper wall of the urethra known as the

crypts of Morgagni or lucunæ urethrales The urethral glands extend posteriorly from the posterior border of the fossa navicularis The diam eter of the average follicular duct varies from o or to o of mm The average diameter of the gland body varies from 0 03 to 0 07 mm. The average depth is from 0 05 to 0 1 mm. The average submucous gland is from 0 3 to 0 5 mm deep and the duct of a sub mucous gland enters the urethra at a right or an oblique angle while the body of the gland bends at an oblique angle to the duct and is directed bladder

Urethral glands are found in the membranous and anterior urethra but have not been proved to exist

in the prostatic urethra The lacunæ urethrales of Morgagni are visible depressions in the upper wall of the urethra begin ning from 4 to 6 cm from the meatus and extending posteriorly for about three fifths of the length of the urethra at times almost to the membranous urethra While they are frequently described as a single row the author's study shows them to be variously arranged and their number to vary from four to sixteen At the mouth they measure from 2 to 3 by o 5 to 1 mm Their average length is from 3 to 10 mm and their average diameter from o 5 to 1 mm They have no glandular function and they are not con nected with the urethral glands They are directed hackward and end as blind sacs

Urethral glands and lacunæ are most important structures for being directly connected with the urethra they are involved in almost every case of gonorrheeal urethritis The urethral glands are not connected with lacunæ The glands secrete a small amount of mucus which protects the urethral wall from the acidity of the urine and during erection facilitates the passage of semen

More progress will be made in the treatment of gonorrhæa when further studies are made of the structure of the urethra and the pathology of the glands lacunæ and mucosa

CLAUDE D HOLMES M D

#### GENITAL ORGANS

Reinle G G Prostatic Obstruction California & Il est Wed 1026 xx15 324

Result says that the mortality resulting from pros tatectomy is 25 per cent for some surgeons 15 per cent for all surgions and 3 per cent for surgeons employing all known precautions and safeguard

In every case of difficult urination the abdomen should be palpated for distention of the bladder the presence of residual urine determined and the pros tate palpated through the rectum

Palpation of the abdomen after the patient has voided will disclose whether or not the bladder is unduly distended If in a case of distention the bladder is emptied by the catheter inserted to give relief or to determine the quantity of residual urine

the result may be disastrous In palpation of the prostate the finger should be inserted into the rectum and the upper border lateral margins and median groove of the gland explored One of the most common errors is not reaching high enough into the rectum to insert the finger up over the upper border

The type of obstruction will indicate the nature of the operation required Frequently this information can be obtained only by cystoscopy

In cases of great distention of the bladder it was formerly the practice to insert a catheter and first draw off about half of the urine and then at inter vals draw off more This method was an improve ment over rapid emptying but was not ideal because relief of the back pressure was intermittent

Van Zwaluwenburg conceived the idea of attach ing the catheter to a long tube leading the tube to a recentacle placed at such a height that the pressure of the urine in the tube just a little less than balanced the pressure in the bladder and then gradually lowering the receptacle over a period of days until it was at the level of the bladder and the bladder was completely emptied

The patient is ready for operation when decom pression has been accomplished gradually the blood pressure has returned to the normal and there is no undue spread between the systolic and diastolic readings. At this time, the phthalein output which invariably drops below normal during decompression has come back to somewhere around 6, per cent. The blood urea will be hetween 10 and 30 gm per 100 c cm, the blood creatinin about 1 gm per 100 c cm, the blood creatinin about 1 gm per 100 c cm, the urine output about 3,000 c cm per twenty four hours and the patient's mental condition great ly improved.

It is generally conceded to be a matter of no great moment which operation is performed if it is per

formed well

The author describes his plan of operation briefly Louis Gross, M D

Huot V C Hæmostasis in Suprapubic Prostatectomy Ann Surg 19 6 lexxus 381

In the last twenty five years there have been radical changes in both the suprapubic and perineal methods of performing prostatectomy. This has led to new standards for the end results of these operations with the improvements in the technique of the operations the ultimate functional results of the two methods have been equally good in the hands of those skilled in the respective methods.

The mortality in prostatic surgery depends upon pre operative preparation, the type of anæsthesia and hæmostasis. Hunt believes that the pre-operative preparation of patients and the anæsthetic used at operation have both helped in lowering the mortality rate in this type of surgery but that the importance of complete hæmostasis has not been sufficiently emphasized heretofore. The effect of hlood loss following prostatectomy has been minimized. However the loss of blood for several days following the operation has lowered the patient's resistance to infection and depleted his organic reserve.

Various methods have been utilized which ten ded to control bleeding partially and ultimately to decrease the total loss of blood Massage of the prostatic capsule immediately after removal of the gland has to some extent controlled the loss of blood from the interior of the capsule Irrigation of the capsule with bot solutions bas all o been advocated Packing of the capsule with fat or ingenious tampons has been of some value in preventing excessive loss of blood Some success has been obtained also by various suturing methods. Thromboplastic sub stances such as kephalin have been employed. Be fore the use of the Hagner bag and Pilcher's modifi cation of it the best method of controlling bleeding from the capsule consisted in packing with iodoform gruze but in the removal of this gauze secondary hæmorrhage was occasionally precipitated

The bag devised by Hagner answered a distinct need in prostatic surgery and served as an excellent means of producing hemostasis within the prostatic capsul. It did not precipitate bleeding on its removal Pulcher's modification of Hagner's bag provides for urethral drainage of the bladder coolours to the contour of the prostatic capsule and cao be maintained in position by means of traction

The bag may be used to either the one stage or the two-stage operation. It is used in the one stage visual ized operation to supplement the sutures around the vesical neck and controls capsular bleeding. It has seemed advisable to prevent the Pilcher bag from entering entirely within the prostatic capsule, the best result being obtained when it impinges on the vesical neckor internal sphincter. The bagis inflated with water and held in place by gentle traction on the urethral tube. The amount of distention and traction necessary to control bleeding is somewhat variable. The distention varies with the size of the capsule Excessive distention may be harmful to the sphincters of the bladder. The average disteotion pressure in a large series of cases was 140 mm The bag is maiotained in position by traction on the uretbral tube obtained by means of a modified Hamer periocal tripod

In the early cases in which the bag was used 25 per cent of the patients had varying degrees of in continence but of the entire series only two have re

mained totally incontinent

A strong silk cord is attached to a ring in the upper end of the urethral tube in the hag and threaded down through the unothral tube to the exterior. The prin cipal traction to maintain the bag in place is made on the cord This prevents the traction from pulling the bag into the prostatic capsule. For twenty four hours after the operation drainage from the bladder is maintained suprapubically by means of a No 30 male urethral catheter. The water is released from the bag sixteen hours after the operation and the bag allowed to remain in place from four to six hours longer If no further bleeding has occurred at the end of that time the bag is removed. A No. 16 catheter is drawn into the urethral portion of the bag and follows it through into the hladder as the bag is brought out through the suprapubic incision Urethral dramage allows the suprapubic wound to beal quickly and shorteos the patient's stay in the hospital

In 702 cases in which the Pilcher bag was used it was necessary to re inflate the bag in 4 per cent Secoodary hamorrhage occurred from the fitth to the ninth day in seven cases. Seveoty five per cent of the wounds healed without suprapubic drainage Hunt concludes that the use of the Pilcher bag is a most effective method of obtaining bamostasis after suprapubic prostatectomy.

aprapable proseatections

#### MISCELLANEOUS

Quinby W. C. Conservatism in Surgery of the Urinary Tract Internal J. Med & Surg. 1926 xxxx 92

A successful outcome of an ailment may be practically certain of an organ or an extremity is sanched but there is always the question as to whether a reasonably good prospect of cure might not be offered by some less radical operation. To determine the proper form of procedure requires surgical judgment and consideration of the expenses of other surgeons.

The author states that more free joint bodies in the human subject should be studied with special attention to the characteristic finding of articular actulage attached to se cost spongiosa. The possibility of such a finding is not excluded even when the history does not indicate a traumatic origin with certainty. Such a determination may prove of value in forensic medicine.

Lehmann J C. Is It Possible for an Osteochon dritte Joint Mouse to Become Rehealed into Place? (Ist eine Wiedereinheitung esteochondri tischer Gelenkmaeuse moeglich?) Deutsche Zischr f Chir. 1945 excii 83

In a series of relatively fresh not loosened or at least not entirely free osteochondritie joint mice evidence of a process of substitution of the dead marrow and osseous tissue was found. In the non-vital marrow cavities this substitution appeared in the form of joing fibrous tissue rich in cells and vessels and in the bones in the form of cartilagmous and osteod tissue reticular bone and lamellary strati on the trabecular of the spongosa which amparently were without nuclei (non-vital).

On the dorsal surface of the joint mouse and also on the fracture surface of the proximal fragment were urregular areas of hyaline cartilage which in many cases hordered a line of division (pseudurthross formation) and no thers formed a bridge between the newly formed bone in the subchondral region and that on the horder of the deeply penetrating osteo chondritte focus. The latter findings suggest a complete reconstruction of the arms.

The histological picture in osteochondritis dissecans (osteochondrolysis) is similar to that of Perthes and Koehler's disease and in the latter conditions

also joint mice are found

A chausen's theory that in osteochondrius the findings are due to a pathological fracture is the most pluusible. The author does not accept the theory of a mild necrotic form of embolism. The question of the character and cause of the vascular closure is still unanswered.

Smith A DeF The Pathology of Joint Tubercu losis in Its Earlier Stages Arch Surg 1926 xu

The routine practice in the New York Orthopedic Dispensary is to make an absolutely certain disgnoss in every early case of suspected joint tuberculoss. If guinea pig inoculation fails an exploratory operation is performed. When the diagnosis is positive an arthrodesis, is done

From March 1922 to March 1925 190 operations were performed on tubercu ous joints exclusive of the spine. Of these cases a series of tentry three in which the process was in the early stages were chosen for special study. In seventeen of the twenty three cases the synovial membrane alone was interested and in three both the bone and sy novial membrane showed tuberculous changes. Since the cases with myoke

ment of the synovial membrane alone were most numerous the author concludes that tuberculosis of joints originates most frequently in the synovial membrane

In cases in which the synovial membrane is first involved the course of the disease is very slow as compared with cases in which the bone is first in volved. No cases were seen in which the disease was confined to the epiphysis.

ELVEY J BERKHEISER M D

Kuettner II and Hertel E What is Known Re garding Ganglia (Die Lehre von den Ganglien) Ergebn d Chir u Orihop 1925 xviii 377

Ganglia are cystic tumors with gelatinous contents which occur in the region of joints and in the opmion of the authors arise from misplaced ger minal cells of the connective tissue joint anlage Pathologico histologically they are cysts with finous walls which exhibit hydropic or hydrine degeneration of the connective tissue. Ganglia often communicate with a joint capsule or tendon sheath. They differ from bursa in that they always occur in the immediate vicinity of a joint while the latter may occur in any part of the body and arise as a result, of frequently recurring pull or pressure

Kuettner found a symmetrical occurrence of ganglia in 3 per cent of his cases and is inclined to the opinion that in these as in cases of symmetrical evostoses and enchondromata there may be a heredi

tary factor

Gangha near the wrist joint constitute \$1.3 per cent of all gangha and occur most frequently in females between the ages of 10 and 25 years. They may develop following strenuous piano or violin playing and similar occupations.

Ganglia near the knee and ankle joints are more common in the male than in the female and develop

most frequently after the thirtieth year of age Trauma may play a part in the development of tumors of this type but is rarely their cause. Gan glia due to occupational injunes are therefore rare On the other hand it appears that such tumors occur most frequently in persons with constitutional weak ness of the Igament

The theory of some French surgeons that there a relationship between ganglia and latent tubercu

losis has not been substantiated

Pain occurs in a ganglion only following a strain and is not due to the size of the tumor. While small ganglia on the flexor tendons of the fingers may cause pain early ganglia the size of a goose egg appearing in the populated space may be entirely painless and may not be noticed until late in their development. The pressure exerted by a ganglion on a nerve often causes a peripheral disturbance of sensation and more rarely slight motor disturbances. Ganglia of the long tendons of the fingers may give rise to the phenomenon called trigger finger in which the inger is hindered in flexion at the beginning of the movement and then lets go with a jerk or snap

In size ganglia range from those the size of a pea on the finger to those the size of a child's head in

the popliteal space

Carpal ganglia are easy to recognize, but the differential diagnosis hetween ganglia, bursa, and neuroma is difficult when the latter are situated near a joint

In general a ganglion should be extrepated under strict asepsis Kuettner estimates the incidence of spontaneous cure at 16 per cent The therapeutic measures to be considered are puncture bursting of the ganglion by a blow, subcutaneous discission and total extirpation Even when extirpation is done the incidence of recurrence is 30 per cent

In 170 cases of ganglia at the wrist which were seen at the Tuebingen clinic the tumor was on the dorsum in 79 per cent and on the volar aspect in 2 3

per cent

The ganglion appearing on the radial side of the dorsum of the wrist lies in the fossa of Ledderhose on the intercarpal joint between the navicular and semilunar bones on one side and the multangulum minus and os magnum on the other

The ganglion appearing on the ulnar side of the dorsum of the wrist lies proximal to the ulnar

styloid process

The ganglion appearing on the volar side of the wrist always hes between the tendons of the flexor carpi radialis and the abductor policis longus muscles

Between the dorsal and volar groups of ganglia appears the dorsovolar ganglion on the radial side of the wrist. In the palm of the hand ganglia occur most frequently near the metacarpophalangeal joints Ganglia of the elbow and shoulder joints are

exceedingly rare The incidence of ganglia in the lower extremities is 9 per cent. In the foot, ganglia are found most commonly on the external malleolus. Occasionally they develop near Chopart's joint, between the cuboid and the anterior process of the calcaneum at Listrancs joint, and at the talonavicular joint Ganglia of the popliteal space may occur on the medial and flevor tendons and may reach the size of a tangerine Somewhat more deeply situated are the medial and lateral supracondylar atheromata of the knee which take their origin from the bursa of the internal gastrocnemius. On the head of the fibula a ganglia may appear which causes irritation of the peroneal nerve

Multilocular ganglia on the menior the size of a pea are rare Still more rare are ganglia arising from the iliac hursa at the hip joint. The removal of these gangha should always be done with the use of a tourniquet and under the strictest asepsis

In conclusion the authors discuss tendon ganglia which occur as foci of cystic degeneration in tendon sheaths or as solid thickenings of the tendons and give rise to the so called trigger finger. They take up also the ganglia of the nerve sheaths which as a rule are situated centrally in the nerve arise from the connective tissue of the nerve sheath and pro

duce a spindle shaped or club shaped thickening of the nerve by pushing the nerve fibers aside

A typical location of nerve sheath ganglia is on the peroneal nerve in the region of the popliteal space Ganglia of nerve sheaths are painful and should always be surgically removed with care not to mure the nerve tissue DUNCKER (Z)

Batson, O V, and Zinninger M M The Experi mental Production of Annular Ligaments as an Example of the Influence of Function upon the Differentiation of Connective Tissue Johns Hopkins Hosp , Balt , 1926 xxxviii 124

The authors conclude from their experiments that a fundamental property of connective tissue is the ability to form fibers under physiological strain and that the various connective tissue bands of the body are developed in response to mechanical forces. The persistence into adult life of structures which are vestigial remnants they believe is due to pull exerted upon these structures

Their studies of the periosteum in relation to an nular bands seemed to indicate that the periostcum for each bone presents a definite arrangement of fibers and the arrangement always corresponds to the tension applied in the bending of the bone

The article is well illustrated

S C WOLDENBERG M D

Trigger Finger and Stenosing Tendo Kroh. F vaginitis of the Flexor Tendons of the Finger (Schnellender Finger und stenosierende Tendovagini tis der Fingerheugesehne) Arch f klin Chir , 1025 CXXXV1 240

The clinical picture of snapping finger and the mechanism of origin of this peculiar disturbance of motility was described very clearly decades ago The author sought to increase our knowledge of it by a careful anatomical study of fourteen cases

The disturbance of motility is often erroneously believed to be in the interphalangeal joint whereas it always occurs at the level of the metacarpophalan geal joint at the point where the tendon sheath is

narrowed by the accessory volar ligament

The trigger phenomenon may occur with flexion or extension or both of these movements. The inhihi tion of the tendon movement may arise as the result of localized thickening of the tendon with an intact or pathologically narrowed tendon sheath or as the result of greater or less narrowing of the tendon sheath due to thickening or chronic inflammation In the latter condition the disturbance of motility may be due to pain and the phenomenon of slipping or jerking may he absent

The treatment is relatively simple—excision of the volar portion of the diseased section of tendon sheath Microscopic examination of the extripated speci

men shows a hyperplasia of all of the elements of the tendon sheath In a more advanced stage there may be a fissuring and vascularization of the fascial tissue of the ligaments, and at an even later stage, hyaline degeneration

In none of the author's cases was it possible to obtain a definite history of trauma or chronic in flammation of the joints in spite of the fact that the processes found in the tendon sheath suggested these factors In every case the Wassermann test was negative Instead of containing fluid the tendon sheath was rather dry In the cases with the trigger phenomenon the author found at the level of the proximal accessory band (the accessory volar liga ment) a decrease in the caliber of the tendon sheath and peripheral to this a thickening of one or both flexor tendons

Hanson R On the Development of Spinal Verte bræ as Seen on Sklagrams from Late Fetal Life to the Age of Fourteen Acta radiol 1926 V 112

From late fetal life up to the age of a years the vertebral body appears in a lateral roentgenogeam as divided into three plates one upper and one lower denser plate and a less dense plate between these In the anterior margin of the latter there is seen an excavation in the form of an amputated cone with its base directed forward

This excavation is occupied by a vein running close under the perichondrium or periosteum and continued toward the foramen vertebrale by a branch on each side of the middle line During the second year of life the excavation disappears except in the lower five to seven dorsal and the first and second lumbar vertebræ where it persists up to the age of 14 years

Between the second and fourteenth years of his the canal formations may have different shapes as

shown in Figs 2 3 4 and 5 In some persons the vertebral body has a stau case like outline at its two anterior corners as shown in Fig 6 The epiphyses are formed in these staircase like structures (Fig. 7) As the author has found this kind of vertebra in persons with a rounded back he assumes that in some cases the peculiar shape of the vertehrie may be the anatomical foundation of ky nhosis

Hanson has found epiphyses in a child aged 6 years although it has been stated that they do not occur hefore the age of 11 years He has discovered the described canal formations in all cases examined --- in fetuses 35 cm in length and in children of all ages up to 14 years As they are largest in the verte bræ which are most frequently involved by tubercu losis he assumes that the extensive venous system of these vertebræ may favor the retention of tubercle bacilli

Freedman A C An Anatomical Note on a Pos sible Source of Error in the \ Ray Findings of the Normal Vertebral Column Canadian M Ass J 1026 XVI 44

The author reports the case of a man 25 years old who sought treatment for two parnful nodules on his hack situated 1/2 in lateral to the eleventh and twelfth spinous processes Lateral roentgenograms showed fissures running transversely through the centers of the bodies of the tenth eleventh and twelfth dorsal vertebræ

The chineal diagnosis was pulmonary and intes tinal tuberculosis

At autopsy the clinical diagno is was confirmed The two painful nodules were found to be under the deep fascia of the muscles of the back and not con nected with the spine Roentgenogeams of the ex cised vertebral column showed the same fis ures a the roentgenogeams taken during life. A sagittal ection through the vertebral column revealed runming transversely through the center of the bod ses of the vertebræ from the ninth thoracic to the 6fth lumbar more or less complete horizontal chan nels dividing each vertebra into an upper and lower egment and containing veins extending backward to join a longitudinal plexus of veins. These chan nels corresponded to the fissures seen in the roent genograms

The author describes the embryology and the development of these structures

The case bistory is illustrated with several photographs and roentgenograms of the spine

TRANK G MURPHY M D

Wentworth E T Systematic Diagnosis in Back ache J Bone & Joint Surg 1926 vill 137

Wentworth discusses static backs osteo arthritic backs and the differential diagnosis of four types of traumatic back-sacro iliac strain sacro iliac luxation lumbosacral strain and fractures and dis locations in the lumbosacral region

Local pain or tenderness may be due to local traumatism or the irritation or injury of the nerves In the diagnosis it is necessary to determine the nature and degree of the stress which causes pain When the patient complains of weakness the range of motion should be determined by direct and in direct examination. The patient's economic and social hackground must also be considered and the possibility of exaggeration of the complaints or malingering must be horne in mind

Low back pain is caused by fractures and dis locations and by osteo arthritis due to infection or a metabolic disturbance. Hypertrophic conditions cause local pain on motion and stress and radiating pain resulting from the irritation of certain nerve

Sacro diac strain is the result of muscle fatigue causing loss of support of the bony parts by the muscles or is produced by sudden over-exertion of muscles The loss of muscle support may be due to long standing stooping or lying in a fixed position Sudden or prolonged strain may cause various degrees of rupture of the ligaments

A diagnosis of sacro iliac subluxation may be made when there is demonstrable mobility of the joints with rehef of the symptoms by a change of position A physiological relaxation of the joints occurs during men truation and pregnancy and a pathological re laxation during general debility and postural strain Gross displacements of the joints have been demon strated by the \times ray after severe trauma The diagnosis of sucro like sublivation is substantiated when the symptoms are relieved by manipulative reduction

Lumbosacral strain usually accompanies trau matic sacro iliac strain and may be due to lordosis

or a congenital hone anomaly

Spondylolisthesis is the evaggeration of lumbo sacration and occurs following fracture or dis location of the fifth lumbar facets or in the presence of an anomaly of the fifth lumbar vertebra or sacration

Stituc hackache is the result of chronic strain due to improper position of the feet legs, pelvis, or

spine

Strains are favored by congenital anomalies The degree of a strain is dependent upon the degree of imbalance between the bones and musculo ligamen

tous supports

Sacralization is a partial or complete fusion of the fifth lumbar vertebra and the sacrum or an articulation of the transverse process of the fifth lumbar vertebra with the ilium. Pain may be produced by pressure of a mu cle or ligament between the transverse process and the ilium irritation or inflammation of almormal joints or burses strain of the sacroliace or lumbosacral pionts due to leverage of the transverse processes on the ilium or sacrum or stretching of or pressure upon the netwes of the lumbosacral plexus

Sciatica is usually the result of irritation of the lumbar and sacral plexus by injury or disease in the lumbosacral or sucro iliac regions. It may be caused also by gluteal my ositis, chronic fibrositis, or gluteal

bursitis

Wentworth reports his findings in 750 cases of low hack pain with special reference to the differential diagnosis

The diagnosis of static strain is difficult because with the exception of poor posture, the findings lack uniformity

With regard to the differential diagnosis be tween lumbosacral and sacro linac lesions. Went worth states that there is a history of severe trauma only in the sacro linac cases. In cases of lumbosacral tksions there is an occupational factor. The pain in sacro linac cases is sacro linac pain, while that in lumbosacral cases is fumbosacral and lumbolinac pain.

Lumbosacral cases present more marked \ray findings than sacro iliac cases. In the lumbosacral cases there is tenderness over the lumbosacral lumbo iliac, and sacral regions and the spinous processes whereas in sacro iliac cases there is tenderness over the sacro iliac joint.

In sacro that conditions prin may be cherted by pressure on the that crests when the straight leg is raised between 180 and 140 degrees while in lumbo sacral conditions it occurs when the straight leg is raised between 140 and 110 degrees.

RUDOLPH S REICH, M D

Chassard Acetabular Lesions in Osteochondritis
of the Hip (Lesions acetabulaires dans losteochon
date de la hanche) Rev dorthop, 1925, xxxii 517

The author reviews the literature on osteochon dritis of the hip and discusses the roentgenograms of twenty six cases Besides the usual findings such as shortening of the femoral neck and a change in the angle between the neck and the shaft with more or less extensive rarefaction, he calls attention to the irregularity of the border of the acetabulum, in some cases there may be marked dents and spurs In the vicinity of the acetabulum and especially in the area just above the roof of the fossa, the surface of the ilium shows decalcification In s rof the cases studied the roof of the acetabulum was displaced upward while in eight there was a certain degree of subluxa tion of the joint. Ten cases showed a tendency of the upper border to assume an elliptical form. In six cases the angulation of the ischium ranged from 03 to 100 degrees, a change which accounted for separation of the fossa and the femoral head

ANTHONY F SAVA, M D

Yount, G. C. The Rôle of the Tensor Fasciae Femoris in Certain Deformities of the Lower Extremities J. Bone & Joint Surg. 1920, vm. 171

Hip flexion contracture is a very common sequela in untreated and improperly treated cases of anterior poliomyclitis in which the extent of the paralysis is such that walking is impossible but the patient is able to sit If this deformity were one of true bip flexion (i.e. due to contracture of the iliopsoas) ad duction or abduction of the thigh would not ma terially influence it but in the majority of the cases it completely disappears when the thigh is abducted and re appears when the thigh is adducted On its re appearance the structures on the outer side of the leg become tense The iliopsoas the sartorius, and the rotators of the thigh do not seem to affect it In addition to the function of abducting the bip the tensor fasciæ femons renders the fascia lata tense In the latter function it is assisted by the gluteus maximus which is inserted into it gluteus maximus therefore acts as a tensor of the fascia lata as well as an extensor of the thigh

When there is paralysis of the quadriceps extensor muscles knee flexion contracture is very frequently

associated with bip flexion contracture

knock knee another commonly associated condition is usually due to displacement of the thia on the condyle of the femur caused by lack of bal ance between the external and internal rotators of the knee. In mest of these cases however, it is found that the iliotibial band offers resistance to internal rotation with overaction of the biceps. The treatment indicated depends upon the degree of the deformity. Poskarial stretching without operation should be limited to cases of hip flexion without knee flexion deformity or knock knee. In cases in which all three deformities are present to a mild degree simple subcutianeous division of the iliotibial band at the knee followed by stretching and correction of

the flexion by wedging and by the use of a cast is advisable. The presence of all three deformities in adults and in children over 6 years of age requires complete division of the fascia lata as far as the bicens tendon and mesially to the middle of the anterior surface of the thigh

In marked knee flexion and knock knee the hi ccps should be lengthened by the open method In two of the more severe cases reported by the author all of the ligamentous structures interfering with correction of the deformity were divided beginning

at the tubercle of the tibia

For cases of quadriceps paralysis in which the tensors of the fascia lata are active the use of the latter as extensors of the knee by the method of Spitzy is suggested. The author has modified this procedure in that instead of stripping free a narrow portion of the fascia lata up to the muscular inser tion of the tensor fasciæ femoris he includes a broad fan shaped section of the fascia lata from the lateral and posterior surface. He has used the method in one case but the time that has elasped since the operation is not sufficient to warrant conclusions as to the end results

In cases of active external and internal ham strings transplantation of the hiceps with the ten sors would probably give the hest results

RUDOLPH S REICH M D

#### SURGERY OF THE BONES JOINTS MUSCLES, TENDONS ETC

Galbraith J II The Presention of Deformity

Allaniic M J 1926 xxix 366
Davis A G The Treatment and Correction of Spinal Deformity Atlantic M J 1926 xux 369
Willard DeF P The Correction of Deformities of the Lower Extremities Itlantic M J 1926

Yount C C The Treatment of Deformities of the Upper Extremity Atlantic M J 1926 xxix 375

GALBRAITH remands us that joints which are liable to become anky losed should he treated in the position that will be most useful to the patient in his occupa tion As a rule the shoulder joint should be treated with the humerus abducted and rotated externally the elbow in about 90 degrees of flexion and the wrist in hyperextension with the fingers flexed. The hip should be treated in abduction with slight flexion the knee in slight flexion and the ankle with the foot at right angles to the leg These positions can be maintained with braces or plaster casts

To reduce the secondary deformity the factors causing it must be overcome by simple mechanical

methods

DAVIS states that he has much co indence in the treatment of attitudinal scoliosis by the Abbott method but believes that scoliosis (fue to infantile paralysis should be treated with jackets applied while the patient is suspended and by corrective breathing exercises

The deformity of Pott s disease can be prevented in most cases by arresting the destructive changes by

systematic heliotherapy and phy iological rest of the part Rest is given by recumbency in a plaster shell or on a Bradford frame and by spinal fusion produced hy the Hibbs or Albee method The method to be used depends upon the requirements of the particular case and the surgeon s familiarity with the various procedures For the average case Davis prefers preliminary splinting correction and general antituberculosis therapy followed by the Hibbs fusion operation

With regard to compression fractures of the verte bræ he states that the vertical diameter can he re stored almost to normal if sufficient hyperextension

is used

WILLARD calls attention to the fact that congenital club foot is primarily a deformity due to contrac tures of the soft parts. Later deformities of the bones occur As correction is easy in the early stages the treatment should be begun before the bones have become deformed. If over correction by manipula tion is found to be impossible a tenotomy must be done on all contracted parts Braces may he neces sary for months or years to prevent recurrence of the deformity. In the cases in which the hones have Iready become deformed radical bone operations on tie tarsus are necessary in order that the foot may be placed easily in a position of mild talipes equi novalgus

Deformities of the foot resulting from infantile paralysis are due to loss of muscle balance Opera tive procedures for their correction should not be undertaken until after a period of four years devoted to attempts to restore muscle function and prevent

deformity

The two operative procedures of the greatest value are the transplantation of tendons of strong muscles to assume the function of the paralyzed muscles and arthrodesis to prevent motion and thereby correct the custing deformity These operations give the best results when they are performed after the eighth year of age Arthrodesis should never he done hefore the seventh year and is best delayed until the tenth A stiff painless joint in good position has good weight bearing function If there is deformity of the hip it can be corrected by arthroplasty or subtrochantene osteotom v

YOUNT states that as the injury which results in obstetrical paralysis is seldom treated promptly after its occurrence the consequent deformity is worse than is warranted by the nerve damage

In the treatment the arm should be braced in the opposite direction i.e. in abduction and external rotation with supination of the forcarm and extension of the fingers and wrist. After muscle tender ness has disappeared the entire arm should be mas saged The splinting and massage should be con tinued for from three to six months

In deltoid paralysis due to infantile paralysi arthrodesis of the shoulder gives considerable func tional improvement if the intrinsic muscles of the scapula are in good condition

LLVEN J BERKHEISER M D

Wittek, A Injuries of the Hands and Fingers (Hand und Fingerverletzungen) Nederl tijdschr v geneesk 1925 lxix, 94

The author, as bead of an emergency hospital, has had ample opportunity to observe accident cases, especially those with poor results and to learn from such errors how to improve methods of treatment

First and second degree burns of the hands, the latter after opening of the vericles, are best treated with silver foil. This treatment results in a cure without scarring and causes little pain.

Injuries of laborers' hands from circular saws etc, have an unfavorable prognosis. If treatment is in stituted early, the best method is excision of the

soiled deep wounds with primary suture. The success of nerve and tendon suture in the band, especially on the flevor surface depends upon the early insertion of the sutures and the heginning of active movements after from ten to twelve days.

Penetrating wounds of the joints, especially in the fingers, should be sutured as soon as possible. In the metacarpophalangeal joints, at least on the extensor surface, it is nearly always possible to suture after the removal of skin flaps but in the interphalangeal joints this is quite difficult.

Injured fingers should be bandaged in slight flexion over a roller bandage and possibly with the application of a small flexible metal splint on the dorsal

aspect

Hammer injuries often result in fractures of the proximal phalans with broken off fragments. These fractures must be set properly under anæsthesia

Complicated hand injuries should not be treated too conservatively as crippled finger stumps will later he more of a disadvantage than an advantage. In partial amputation of the ingers the sear should be placed as far roward the dorsal aspect as possible and the insertion of the long flexor tendons and the base of the provimal phalanx should he preserved A case of this type should be treated in a hospital, even though the patient and physician may oppose it. The after treatment should be carried out with protracted bot, water bath.

In cases of old band and finger injuries it is often necessary to improve poor results and the conse quences of infection, as for instance, by the use of free fat transplants Because of the possibility of lighting up the infection, extra articular methods

should be used

In anhylosis of the wrist, dorsifiction and better closure of the hand is obtained by chiseling out a wedge with its base directed dorsally. Even if the joint is movable, extensive scars remain in the extensors therefore flevor tendons are transplanted to the extensor aspect.

The very frequent faulty contraction makes it very difficult to overcome stiffness of the fingers. This can be corrected most quickly by Schede's lateral incision. The fingers should then he bandaged in shight flexion.

Ankylosis of the fingers after laceration or alter suppuration of the flexor tendons such as occurs in

phlegmons is improved by transplantation of the tendon of the palmans longus When this condition is present in several fingers the author resects the first interphalangeal joint and by causing bony ankylosis at the correct point gives the hand a better erasp. When the thumb is lost, an attempt is made, in the cases of young persons to replace it with the toe or to build up a thumb from the skin of the breast and a piece of rih in the cases of older persons it is necessary to use a prosthesis. When several fingers are lost but the thumb is intact, the meta carnals are sacrificed in order that the remaining fingers may be approximated to the thumb more easily When all of the fingers and the thumb are lost the metacarpal interspaces are split and covered with skin (Burkard's "Mittelfinger")

SCHEUER (Z)

#### Howell, B W A New Operation for Opponens Paralysis of the Thumb Lancet 1926 ccx 131

To improve function in the thumb in which the normal opponens muscles are paralyzed, the author transposes the tendon of the flexor longus pollicis. This tendon is exposed through a palmer incision on the thumb to above the wrist. The flap is well under mined to the radial border of the thenar eminence and a second incision about 2 in long is made on the dorsal surface of the thumb.

The tendon is then divided at the wrist and the distal portion passed subutuaneously around the ull nar border of the first phalanx and out through the dorsal incision. It is then passed hack through the same incision subcutaneously in an oblique direction across the tendon of the extensor longus pollicis so that it comes to le subcutaneously on the the

nar eminer

A subcutaneous tunnel is then made to the upper part of the original incision the tendon is drawn through and with the thumh in opposition the tendon ends are united with twenty day chromicized gut

After the operation the thumb is held in opposition by a cast When healing has occurred, the patient is educated in the use of the thumb in opposition by faradic stimulation and massage

The author states that he has had good results from this procedure in eight cases

FRANK G MURPHY M D

Smith Petersen, M N and Rogers, W A An End Result Study of Arthrodesis of the Sacro Iliac Joint for Arthritis—Traumatic and Non Traumatic J Bone & Joint Surg 1926 VIII 118

In traumatic osteo arthritis of the sacro like joint the roentgenogram shows increased density along the margin of the joint, irregularity of the joint line proliferative changes at the inferior margins, and disalignment of the pubes

Microscopic examination of the cartilage and bone remoted reveals erosion of the cartilage and its replacement by fibrous tissue. In some cases the area of fibrosis shows localized areas of bemorrhage

In all of the twenty six cases reviewed by the authors the patient complained of local pain and tenderness on pressure in the region of the inferior sacro that I gament and sacrosciatic notch and of radiating pain along the distribution of the first and second sacral nerves 10 the posterior aspect of the thigh and the posterior and lateral aspects of the log In 12 per cent there was tilting of the pelvis. In all of the acute cases muscle spasm occurred when the patient stood up and decreased or ceased entirely when sitting or recumbent position was assumed. Straight leg raising was positive in thenty four cases Lateral compression wa present in 5 per cent The authors consider this sign valu able when it is present but state that it is often misleading and is not pathognomonic

Since the operation for this condution was first described it has undergone several important modifications. After the usual exposure of the sacro-like region as window is removed from the flum with a motor driven saw. The joint cartilage is then cure ted out and after removal of the cartilage from the block of bone the latter is replaced and countersuna, and the edges of the window are broken down.

Of the thenty six cases in which this operation was performed complete recovery resulted in twen ty two (846 per cent) and partial recovery in two (77 per cent). In the remaining two the treatment failed. Rusouri S REIGE MD.

Lavalle C Fifty Cayes of Tuberculous Octoo Arthrits:—White Swilling of the Anee and Coxidita—Which Were Cared by Done Graft ing the Philent Remaining in 1860 only Twenty Fire Days (Cincurnia cases de estecatinis tuber culsass—tumores bianco de la rodifia y covalgra curados con injettos 6-eos en 25 dias de cama) Semani mol 1915 xxxx 1920.

Lavalle reports the chrical histories of thirteen of fifty cases of tuberculous osteo arthritis which were treated by his method of bore grafting. Thin bits of bone the size of toothpicks enveloped in peri osteum are taken from the patient stihia the cutting being done with sharp scissors instead of a saw in order to keep the haversian canals open. In tubercu lous osteo arthritis of the knee a tunnel is then made in the lower third of the diaphysis of the femur and the uppe third of the diaphysis of the tibia and into these tunnels the ends of the grafts are inserted the graft being pussed around the knee like a bridge and not penetrating the joint. After the graft has been introduced the periosteum which was pushed back. from the tibia and femur when the tunnels were made is brought back over the graft so as to enclose it completely

Lavalle believes that the regeneration of bone takes place not from the periosteum but from the cortex and matrow the periosteum acting only as a retainer and guide to the newly formed bone

In coxalgia the grafts are passed around the head of the femur, one perforating the rim of the acetahu lum and the other the rick of the femur and are unted by the tripy of bone which run around the joint in the subuctaneous cellular tissue. The con in the tissue bed furnishes abundant autition and a copious blood supply for the graft. The free recruit ition established through the haversian canals of the graft drains away, the torums from the tuberculous cous and establishes conditions of nutrition which help the tissues in their struggle against the infection. The part of the graft within the bone brings about by its trophic action a condensing ostetis leading to ossification.

Within a few days after the operation improvement is noted in the patients general condition, pp tite and color the yellowish tint of tuberculous cacheau disappears and the pain stops. After tearth five days the patient can be out on bed with out any apparatus and should be allowed to go to school play and carry on the normal activates of a child's life. After six months the laters! grafts are removed as they have then served their purpose Illustrations of such removed grafts show that the fractures in them bave, healed and that the grafts have increase, I from the size of toothpicks to the thickness of a rib.

The grafts must be autoplastic and osteopernosted and in their transplantision the most careful sepsimust be observed. The bed in the subcutaneous edulatit is such must be carefully princared and all bleed ing must be controlled so that there will be no clore between the bed and graft to interfere with the peneration of the capillance. The graft should be carried down to the spong, tissues of the bond mighth of the propagation of the transplanted. While the pottent is in bed

the neld of operation should be irrenobilized The grafts in all of the author's cases have lived They formed firm adhesions with the surrounding tissue and were abundantly nourished. A complete recovery resulted even in cases of open tuberculous o teo arthritis infected secondarily with other bac teria the fixtulæ closed and the lesions healed within a few months. Many of the cases were old ones with advanced lessons and subligation. The perforation of the draphy so epiphy seri cartilage in the operation has never interfered with the growth of the bone the only cases of shortening being those in which the shortening had already taken place before the opera tion Cases of hacillary osteo-arthritis can be cured by this method in five or six months with the child leading an active life whereas with the use of the old methods of immobilization and heliotherapy four or five years were required to effect a cure. If the treat ment is given early complete mobility of the joint AUDREY G MORGEN MD can be obtained

#### FRACTURES AND DISLOCATIONS

Curtillet J and Tillier R The Indications for the Pedicide Bone Graft and its Advantages (Les indication et les avantages de la grefie os euse à pédicule) Lon thir 1925 xm 789

The authors claim priority over Cuneo for the pedicled bone graft since in 1904 they described the method of making the large flap which constitutes the pedicle of such a graft This thick flap of muscle and aponeuro is maintains the vitality of the graft by preserving its nutrient vessels. Its formation is analogous to the Indian method of making a pedicled

skin graft which is in common use

In general, a free bone transplant acts only as a guide to the new formation of bone. The graft itself dies and becomes absorbed. A bone graft has often been compared to a nerve graft, but the nerve fibers that penetrate the dead nerve graft are elements which function directly, while the blood vessels that penetrate the free hone graft do not play any direct part in the function of the bone. The bone graft acts only as a prosthesis and the vessels weaken rather than strengthen its prosthetic action. They bring about absorption and what is called haversain rehabilitation and these cause the fragility of the graft which is so often responsible for secondary fractures.

It was formerly thought that one of the conditions for successful hone grafting was bealing of the wound by first intention, but Ollier found that tissues may ossify better if they are irritated in the presence of hone. Therefore if a graft is eliminated slowly by an attenuated infection the functional result may be more satisfactory than that obtained by an septic operation since under these circum stances the callus formed is capable of heing molded and there is no danger of a secondary fracture

The pedicled graft tends to bring about the desired result without the danger of infection. Even though it contains only a small amount of bone it causes ossification of the surrounding tissues. In stead of being transplanted it is displaced, together with its mutritive materials and therefore is living

and not dead, bone

The graft need never he more than 4 or 5 mm thick, whatever its length In some of the authors cases it was as long as 10 cm. Thin grafts of this type may increase to the size of the normal bone

In one of the two principal methods of performing the operation the graft is taken from a neighboring bone. This is possible of course, only in the leg or the forearm. In the other method it is obtained from the bone in which the defect to be repaired is situated. Three climical cases illustrating the different methods are reported. AUDER G. MORGAN M.D.

Dollinger J The Operative Reduction of Old Traumatic Dislocations of the Shoulder Elbow, and Hip on the Basis of 207 Cases (Die operative Einrenkung der veraltient ummätischen Verren kungen der Schulter des Ellenbogens und der Hierlie auf Grund vom 67 selbstopenerten Faellen) Er gebn d Chir u Orthop 1925, zwii I

This article reports upon 103 cases of old dislocations treated surgically and supplements a report on 104 similar cases made by Dollinger in 1911. The recent series included forty five dislocations of the shoulder forty six of the elbow, and twelve of the bip

#### SHOULDER DISLOCATIONS.

The patients with shoulder dislocations ranged in age from 11 to 72 years. Thrity three were men. In twenty nine cases the dislocation was reduced by open operation, in ten a resection was necessary and ms with the permitted with the state of the first procedure. In twenty seven cases it was necessary to deal with the intracoracord ligament, and in mine with the subcoracoid preglenoid ligament iso. In two cases there was total softening of the head of the humerus which necessative resection, and in others there were more or less marked changes in the head of the humerus and in the socket. In twenty oncases the greater tuberosity was fractured and in two cases there was a fracture of the lesser tuberos its.

Not all of the injuries to the musculature were the immediate result of the dislocation since many of them could be attributed to unsuccessful attempts at reduction. Injuries to the musculature lead chiefly to interposition or contracture which impedes reduction.

The operation for reduction was performed under general snæsthesia in only eight cases. In the others induction anæsthesia according to the method of Kulenkampt was used the patient sitting upon the operating table while the assistant held his arm hent at right angles. The technique of the operation and the replacement in both typical and complicated cases is described in detail

#### DISLOCATIONS OF THE ELBOW

The ages of the patients with dislocation of the elbow ranged from 8 to 57 years. In thirty seven cases reduction was effected by open operation but mine cases resection was necessary. In thirty seven cases the joint was dislocated hackward, and in seven of these also toward the radial side. In one, the dislocation was toward the ulmar side and in one it was forward. In the cases of lateral dislocation the external epicondylar and either one or hoth of the lateral ligaments were torn off. A very frequent condition was swelling of the joint cartilage on the bumerus and the formation of callus on the postenor surface of the arm and elsewhere. In fourteen cases the joint was analysised in extension. In a smaller number there was a moderate degree of mobility.

All of the operations were performed under in duction anisathesia. Whenever possible, the joint was turned inward so that the ulnar side of the forearm touched the inner side of the arm. All creatness and interposed tissue were removed and a smooth bone surface was prepared. The procedure for the reduction varied in different cases. It was often possible to prevent luxation during the operation by extreme flexion. In cases in which the dislocation was not particularly complicated good function was obtained.

#### DISLOCATIONS OF THE HIP

The patients with dislocation of the bip ranged in age from 11 to 48 years and all of them were males.

There were nine cases of lumbo iliac dislocation, one of obturator dislocation and two of ischial dislocation. In nine cases reduction was effected by arthrotomy, but in three resection was necessary All of the operations were done under conduction anæsthesia according to the method of I eppler which was found to be entirely satisfactory. The incision was made from the posterior spine to the base of the trochanter and the gluteus maximus was separated. The joint socket was then exposed and cleared for the reduction care being taken to preserve the various anatomical structures. The technique of the operation and reduction which varied for the different types of dislocation is described in detail No statement is made regarding the end re ults in

these cases because on account of the war and its after effects no follow up of the patients was possible The author therefore refers to the conclusions drawn by him in his first report stating that the results were probably ju t as good as those in the first series of cases ERLACHER (Z)

Desgouttes D and Ricard A The Treatment of Fractures of the Upper End of the Tible (A propos du traitement des fractures de l'extrémité supérieure du tibia) J de chir 1925 TTV1 481

Recently the operative treatment of fractures of the upper end of the tibia has won considerable favor In fact some surgeons believe that it is the only treatment that will give proper apposition of the fragments and the best functional results

The authors are not in favor of routine open opera tion con idering as most important arguments against it the difficulty of fixing the fragments which are usually multiple and the fact that the spongy bone in the part of the tibia does not lend itself

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well to the use of bone pegs or screws They admit however, that open operation has the advantage of permitting early mobilization and more exact cor rection of the condular deformity. Condular deformuty, uncorrected will alter the normal support of the femur this is true especially when the relations of the internal condule of the tibia are dis-5 whent

Desgouttes and Ricard report in detail three cases and cite two cases of condylar fracture which were treated con ervatively comparing the \ ray findings with the final functional esults Such a study shows that displacement of the internal condule has a much less favo able prognosis than a similar displacement of the external cordule. The reason for this is that the axis of weight bearing pos esthrough the internal rather than the external condyle

The authors believe that conservative treatment combined with the usual auxiliary measures such as active and pas ive motion and massage will give results as good as those claimed for the open opera tion ANTHONY F SAVA M D

#### Copp II R Fractures of the Os Calcia Diagnosis and Treatment Radiology 1926 vi 228

The indications for the treatment of fracture of the os calcis are entirely dependent upon the existing deformity and for the demonstration of the de tormity the roentgenologist is thiefly responsible The rocatgenograms should always show the anteroposterior and lateral views

Arthrodesis overcomes the symptoms arising from the persistent arthritis and relieves the peroneal space Since this is without appreciable risk Conn advocates it for cases of non union of the os calcis

S D Mointynero M D

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

#### BLOOD VESSELS

MacDougall J G Arteriotomy for Embolus Obstructing the Circulation in nn Extremity Illustrated by a Successful Case Canadian M Ass J 10 6, xx1 265

In emholism of the main arteries, arteriotomy to remove the embolis is sound in principle and reason ably safe in practice if it is done early. In the cases reported and collected by key, a successful result was obtained only when the operation was performed in the first twenty four hours after the onset of the condition.

MacDougall reports a case of embolism of the left renal artery followed four days later by embolism of the common femoral artery Arteriotomy of the common femoral artery was done under local anasthesia with almost instantaneous improvement in the affected leg. When the patient left the hospital two weeks later he appeared normal and had normal use of the leg for eight months. At the end of that time he died suddeling of a heart attack.

J FRANK DOUGHTY, M D

#### BLOOD, TRANSFUSION

Herzog F The Action of the Roentgen Rays on the Regeneration of Blood (Ueber die Wirkung der Roentgenstrahlen auf die Blutregeoeration) Strahlentherapie, 1325, xix 759

To determine the action of the roentgen rays upon the regeneration of blood the author carried out experiments on seven guinea pigs from which large amounts of blood had heen withdrawn. The animals were kept under observation for about three months

Effective direct irradiation of the bone marron apparently always retarded erythropotesis but under certain conditions (which are not stated) a brief generalized irradiation favored the regeneration of blood. The latter effect is due probably, not to a direct, but to an indirect, action of the rays on the bone marrow perhaps through the agency of chemical substances formed by the rays. The author concludes that a generalized irradiation may prove beneficial in severe anzemis.

The change in the leucocyte picture which occurs after such a weak irradiation is described, but nothing new is brought out

BOCK (G)

# Perry, M C The Preservation of Blood for Transfusion Wisconsin M J 1926 xxv 123

The author states that it is possible to preserve living human red blood cells for several weeks in a solution of lithium citrate and devtrose. The blood for preservation is collected in a paraffin lined Aimp ton tube. The passage from the vein to the receiving vessel should be of large diameter, as short as convenient, and ahsolutely clean. The preserving fluid consists in a 18 per cent lithium citrate solution and a 10 per cent dettrose solution made with freshly distilled water, autoclaved separately, and myed just hefore use. Phree volumes of dextrose solution of our volumes of hlood, and five volumes of lithium citrate solution are used. Thus, for 500 c cm of blood, 375 c cm of dextrose and 625 c cm of lithium are required. The final concentration of the dextrose hlood citrate mixture is 2 5 per cent dextrose and 0.75 mer cent lithium citrate.

The blood is mixed immediately with the fluid and stored in an icehor. The red cells settle at the hottom of the containing vessel in from twenty four to thirty six hours. The supernatant fluid is slightly opaque and ranges in color from yellow to a greenish yellow. A pink tinge to the supernatant fluid in dicates hemolysis caused prohably by infection, therefore when this is noted the blood must be dis

arde

When preserved blood is to he used, the superna tant fluid is removed through a tube by gentle suction as completely as possible Sufficient 5 per cent dex trose solution is then added to restore the red cells to their original volume. The cell dextrose suspension is gently agitated with a rotary motion and poured through two layers of sterile gauze, which removes small clumps formed during sedimentation. The cell suspension is then warmed to hody temperature and given by any convenient method.

The transfusion of preserved blood offers a means of meeting the requirements of emergencies associated with shock and hemorrhage, the supplies heing instantly available. In chronic maladies, however, preserved blood is of less value than whole blood.

SAMUEL KARN, M D

#### LYMPH VESSELS AND GLANDS

Costain, W A Lymphatic Drainage N 1 ork
State W J 1926 xxv1, 225

The operation of draining the thoracic duct in the neck is a new surgical procedure designed to over come the septic absorption associated with diffuse peritonities. Since this absorption occurs through the lymphatics into the thoracic duct, it was helieved that the ligation and opening of the latter structure in the left side of the neck would prevent the septic products from entering the hlood stream. These products are assumed to he the cause of the obstipation distriction, womiting and cyanosis generally regarded as complications of peritonities. They are contained in the lymph which is constantly heing poured into the blood in quantities estimated at 2 qfts a day. In peritonities, this fluid comes from two

septic sources the peritorical cavity and the infected tissue spaces through the lymphatics proper and the lumen of the bowel through the lacteals

In practically allof the cases in which the operation described has been performed it has been followed by marked improvement in the patient's condition. The sooner the duct was drained the hetter the re

The author describes the operative technique and cites a number of cases

SAMUEL KAIN MD

Voorhoeve N Malignant Lymphogranulomatosis Acta radiol 1925 IV 567

After a critical review of the hierature the author reports the results of the radiological treatment of mineteen far advanced cases of malignant I mpho granuloma in which the diagnosis was confirmed by histological examination. He states that very much more favorable results can be obtained by this treat ment than is generally believed.

The punciples by which a rational radiological therapy should be guided and the manner in which it should be applied are discussed. Attention is called to the importance of treating each local affection with sufficiently large doses and of treating recur rences as soon as they appear. Tissues remaining healed after the treatment must not be exposed to

any more tradiations than are absolutely necessary. The author discusses also the frequent occurrence of the affection in the mediastinal and abdominal glands the degree of leucopania caused by the treatment which may be quite marked without giving rise to any permanent damage the recognition of recurrences the influence of the irradiation on the temperature and is significance in the diagnosis the circumstance, sunfavorable for the prognosis and the contra indications to treatment.

Autopsy material shows that histological examinations during life sometimes do not permit a diagnosis of malignant lymphogranuloma

## SURGICAL TECHNIQUE

# OPERATIVE SURGERY AND TECHNIQUE, POSTOPERATIVE TREATMENT

Hendon G A Venoclysis or Intravenous Nutri tion Texas State J W 1926 vm 662

Fluids and nutriment may be administered by renoclesis when they cannot be given by mouth proctodysis, or subcutaneous injection. The author recommenda a to to pet cent solution of dextrose in normal saline solution at the rate of sixty drops per minute.

The solution must be completely sterile and must reach the circulation at a temperature between 100 and 310 degrees F. Increased lachrymal secretion, exdema of the eyelids, and hypostatic pneumonia are evidences of supersaturation. An increase in the temperature chills and headache may occur but these are not contra undications to the treatment.

Six cases with varied indications to the treatment Six cases with varied indications for the intravenous injection of glucose solution are reported Merke R Hoov MD

# ANTISEPTIC SURGERY, TREATMENT OF WOUNDS AND INFECTIONS

Destelano F, and Vaccarezza R F The Treat ment of Carhuncle in Man (Tratamiento del carbuncio humano) Semana méd 19 6 xxxii 165

From the treatment of 414 cases of carbuncle the authors conclude that the injection of peptone gives better results than the use of anticarbuncle serum or normal on serum. In the 192 cases treated with peptone alone, the mortality was to 93 per cent while in eighty two cases treated with anticarbuncle serum alone it was 15 85 per cent and in seventeen cases treated with normal or serum alone it was 20 41 per cent. In 280 cases treated with peptone alone or combined with a serum, the mortality was 12 85 per cent, while in 141 cases treated with anticar buncle serum alone or combined it was 19 14 per cent and in thirty three cases treated with normal ox serum alone or combined it was 21 21 per cent Twenty six cases of cutaneous carbuncle with senti cæmia were cured by injections of peptone

These results indicate that the treatment of choice for carbuncle in man is the intramuscular injection of peptone. Not only is this more effective than the use of specific or normal serum but it does not cause serum sickness. Address G. Morgan M.D.

D Hereile F An Attempt to Treat Bubonic Plague with the Bacteriophage (Issai de traite ment de la peste bubonique par le bactériophage) Presse méd Par 1925 veun 1393

The author reports four cases of buhome plague treated by the bacteriophage alone, the first cases he has had the opportunity to treat under proper conditions. In every instance the clinical diagnosis was controlled by direct eximination of material obtained from the huboes by inoculation of guinea pigs, and by cultures. The case reports are supplemented by the temperature charts.

The bacteriophage employed was an especially active one obtained from the excreta of rats during an epidemic in Indo China Injections were made

directly into the buloes

The first case which was seen on the third day presented all of the symptoms of the disease. The temperature reached 106 5 degrees F and there was marked prostration. In the afternoon an injection of 1 c cm of the hacteriophage was made into the bu boes and by the following morning the patients condition was completely changed. By the end of three days the temperature had fallen to approximately normal. With the improvement in the general condition, the pain and tension in the buboes practically ceased. When the buboes were increed during convalescence their contents were found to be entirely sterile and an active bacteriophage was isolated.

The histories of the second and third cases were almost identical with the history of the first case. The time required for recovery was respectively three days and twenty four hours. The bacterial

findings were the same

The third case was seen on the second day of the disease. The temperature was then 104 5 degrees F, and the pulse 120. One cubic centimeter of the hacteriophage was injected immediately. On the following day slight improvement was noted but the heart showed the effects of a profound to ximilar A second injection of 15 c cm. was followed by a rapid fall in the temperature accompanied by corresponding improvement in the patient's general condition.

On the eighth day involvement of the opposite inguinal glands was noted. This had progressed with out any change in the temperature. Cultures from the hubo were negative, but inoculations into a guincaping caved death at the end of ten days and a bacillus pesus which was resistant to the bacterio phage was rodated from the animal s spleen.

In all of these cases the bacternophage has a marked antivous effect in addition to its bacternodal action. The same phenomena have been noted in the treatment of dysentery. The author concludes that the treatment is specific and as it does not produce a reaction it should be employed as early as possible without waiting for a certain diagnosis. Because of the uniformity of the hacilius pestis, a stock hac terrophage may be used.

ALBERT F DE GROAT M D

#### ANÆSTHESIA

Boros J Cystic Purulent Cerebrospinal Meningi tis Following Lumbar Anæsthesia Induced with Novocain (Cystische eitrige Meningitis cere brospinalis nach Lumbalanaesthesie mit Novocain)

Therapia 1925 11 118

In the period from April 17, 1906 to November 15 1024 1 439 operations were performed under local anasthesia in the author's clinic In fifty five cases the anæsthesia was induced with a cgm of stovaine In four (7.3 per cent) of this group it was unsatisfactory in nine (16 13 per cent) bulbar symp toms appeared in the course of the operation in one the nationt collapsed and in one the operation was followed by headache

Tropococain was used in twenty eight cases and s per cent novocain (2 5 c cm ) in 1 356 operations In sixty one (4 40 per cent) of the cases in this group the anasthesia was unsatisfactory in o 81 per cent bulbar symptoms appeared during the operation in 293 cases (25 29 per cent) the operation was followed by headache in one case paralysis of the ocular mus cles occurred and in one case meningitis developed This report is hased upon the last case mentioned that of a 25 year old man who entered the hospital with an incarcerated inguinal hernia on the right side Lumbar anæsthesia was induced satisfactorily Twelve hours after the operation the patient de veloped a very severe headache hecame restless and lost consciousness. After two hours all of the cardinal symptoms of inflammation of the meninges were noted. Forty per cent urotropin was given intravenously Lumbar puncture disclosed a sterile turbid fluid under high pressure. Ten cubic centimeters of trypaflavin was given intravenously and the intravenous injection of protropin was repeated The symptoms gradually regressed and by the sixth

day had ceased entirely The novocain used was Pautrier had a case in which similar symptoms followed the use of stovaine Besides these two cases only two others of meningitis following lumbar

tested and found to be without fault

anæsthesia have been reported in the literature. The favorable outcome in the author's case is ascribed not to the medicaments administered but to the decompressive lumbar puncture

VON LOBUSYER (7)

Babcock W W Demonstration of Spinal Anges thesla Sure Clin A Am 1026 vi 1

In the Samaritan Hospital Philadelphia spinal anæsthesia has been used in more than 20 000 cases Babcock believes that when it is properly induced it is far safer than nitrous oxide oxygen or ether anæsthesia. He has used it for 90 per cent of his more serious operations below the diaphragm In acute abdominal infections it is unsurpassed With no other method can an equal degree of an æsthesia be produced with as little effect upon the parenchymatous organs in the cases of patients suf fering from diabetes nephritis cholemia or an acute or chronic respiratory disease

The physiology of rachianæsthesia is that of tran sient root interruption chiefly the posterior roots with consequent analgesia and loss of tactile muscle and temperature sense This block is essential to sender operation painless. The anterior root block is essential to complete muscular relaxation but as it also leads to a slowing and weakening of the heart action with a fall in the blood pressure it may be hazardous

If the anasthesia involves only the lower lum har and sacral roots no effect on the blood pressure will result but if the fibers supplying the great splanching vessels and those of the upper part of the body are involved, there will be a marked fall in the pressure usually lasting for from fifteen to thirty minutes This fall may be combatted by introducing fluid especially serum or gum acacia solution into the vessels. Adrenalin is also effective. For safety the blood pressure is watched throughout each opera tion under spinal anxisthesia the intravenous in fusion apparatus is kept at hand and the technique has been so perfected that the injection can be given in five minutes GEORGE R MCAULIFF M D

# PHYSICOCHEMICAL METHODS IN SURGERY

#### ROENTGENOLOGY

Sicard J A, and Forestier J The Present Status of Roentgenological Examination with Lipuodol (Estado actual de la exploración radiológica por el acette iodado—lipiodol) Rev méd d Barcelona 1025 11, 572

Lipiodol as a contrast medium for roentgen diagnosis was first suggested by the authors in October, 1921. As the result of its use considerable progress has been made in roentgen diagnosis, particularly with regard to the subardenhoid space the lungs, the pleure, and cold abscesses. The method is absolutely harmless. In more than 5,000 cases in which the authors have made lipiodol injections there were no deaths, and the only serious accident occurred when the injection was made into the cerebral ventrucles. Moreover, the authors have found no reports of serious sequelze in the literature. Lipiodol is indicated for an area in which the ordinary methods of roentgenography, are insufficient or dimercious.

In experiments on animals lipsodel has been in pected intravenously for the study of the circulation in the capillaries. It has been found of value also for the study of fit embolism. In man it has been employed for the study of the cavities in the long bones under local anæsthesia an opening was made in the bone with a trephine. In this way it was possible to study the evolution of Paget's disease of Recklinghausers's

osteitis fibrosa

By having the patient swallow gelatin capsules containing 1 c cm of lipiodol, the secretory activity of the stomach may be studied. The rupture of the capsule when its membrane has been digested can be easily seen on the screen. In normal subjects the capsule ruptures at the end of fifteen minutes, while in persons with hyperchlorhydria the time before its rupture may be decreased to from five to eight minutes and in those with hypochlorhydria or cancer it may be increased to from fifty to sixty minutes.

Lipiodol may be used also in examinations of the lachtymal tract, the maxillary sinus, the urethra, the uterine cavity, the fallopian tubes, the ventricles of the brain, fistule bone abscesses, lung cavities

and the epidural and subarachnoid spaces

In thirty seven cases of intramedullary tumor in which the authors have operated, the lipsoid diagnosis was correct in every instance. Several months ago the authors mixed lipsoid with olive oif, obtaining a mixture which is lighter than the cerebrospinal fauld and therefore niess in the vertebral canal. When in the case of a normal person 5 or 6 c cm of this mixture is injected by the lumbar route, it will rise to the cerebral ventricles in fifteen minutes without causing pain. When the canal is obstructed, it will stop below the obstruction. It may be used in con-

nection with ordinary lipiodol to demonstrate the location of multiple tumors

The article contains fourteen lipiodol roentgeno grams of the lungs, sinuses, cerebral ventricles and vertebral canal Audrey G Morgan, M D

#### MISCELLANEOUS

Kime J W Heliotherapy in Tuberculosis and a New Instrument for Its Use Med J & Rec 1926, CXVII 164

The author claims precedence over Finsen in the treatment of tuberculous conditions by sunlight his first article on the subject having been published in 1888.

Finsen found that concentrated sunlight kills bacteria fifteen times more rapidly than ordinary sunlight. The bactericidal action of sunlight is due to increased phagocytosis resulting from an inflammator reaction with increased exudation of serum and migration of leucocytes. Proyr states that sunlight penetrates the body to adepth of roin, that concentration favors its penetration and that pigmentation favors the absorption of the ultraviolet rays. In bone and joint tuberculosis treated with sunlight pain is rapidly alleviated the temperature gradually falls the appetite gradually returns, weight and strength rapidly increase, and the condition of the hood improves.

As glass cuts out the ultravolet rays, highly pol ished metal reflectors are used to concentrate the sunlight. The light is then passed through violet colored screens of celluloid which permit the passage of the ultravolet rays. The condenser is 5 ft in diameter and utilizes all of the shorter rays of sun light.

In pulmonary tuberculosis the patient is gradually accustomed to the condensed light and his bared chest then exposed to it for twenty minutes a day. This treatment is supplemented by exposure to the direct rays of the sun for three hours a day.

In glandular, joint, and surgical tuberculosis, the condensed violet rays are turned directly upon the parts affected Response to the treatment is prompt Lizewelling R. Lewis M.D.

Clark W L Electrothermic Methods in the Treatment of Neoplastic and Allied Diseases J Am M Ass 1926 Ixxxvi, 595

Bengn and malignant growths of small or moder are size may be destroyed by beat of just sufficient intensity to desiccate the tissues. The heat is produced by a monopolar high frequency current of the Oudin type. The desired effect is produced in the tissues by delivering the current through a short air space. This treatment is of advantage when the

lesion is localized and when good cosmetic results are not only desirable but essential. It can be controlled so perfectly that a small growth on the cornea for example may be successfully treated without im pairment of vision by the subsequent formation of scar tissue and a small growth on the vocal cords may be destroyed without destroying the voice

Other conditions successfully treated by the desic cation method are localized beingin growths of the larging bladder and rectum corneal ulcers ptery guin trachoma cervical crosson urethral caruncles moles papillomata angiomata navis spigenetiosis leucoplakia lupus vulgaris and lupus crythema

tosus Coagulation is produced by a hipolar high frequency current of the d Arsonval type. This treat ment which is more penetrating and intense than the desiccation method is utilized to destroy larger growths and growths involving bone. As compared with the heat produced by high frequency currents that produced by the actual cautery is superfixed in its action. The former is generated within the tissues by their resistance to the current while the latter is merely transmitted by contact.

Whether descention or coagulation is used the aim should be to destroy the growth at a single six ting. As a rule the devitalized tissue should be removed immediately, by excision or curettage. If urther treatment. When the mucous surfaces are unvolved the destroyed tissue is usually allowed to separate slowly because of the greater danger of secondary himmorthage in such areas. Bone that has been treated will sequestrate in about six weeks. If important blood vessels are modived it is safer to lizate them before the treatment.

As an example of an operation by the coagulation method amputation of the tongue is described When the condition is far advanced and associated with considerable emaciation it is Clark's practice to do a preliminary gastrostomy. After the jaws have been separated by a mouth gag a heavy silk suture is passed through the tongue from side to side and by means of this suture the toneue is drawn well forward The coagulation needle is then brought in contact with the anterior surface of the tongue as far back as necessary and a line of coagulation is made The tongue is then elevated and the frenum and the juncture of the tongue with the floor of the mouth are coagulated. In the final step the tongue is excised through the coagulated area. After the opera tion the mouth is washed two or three times a day with a weak solution of sodium hypochlorite to de odorize it and to keep the slough free from maceration

In addition to desicating or coagulating the affect of tissue and sealing the bloods and in min channels the heat penetrates beyond the area totally destroyed and devializes malignant cells without permanently impairing the healthy tissues thus lessening the hicklibood of local recurrences and conserving the maximum amount of normal tissue. Malignant cells especially those that are least differentiated are deviatized by a lower degree of heat than normal cells.

The histopathological appearance of cells subpected to descreation and coagulation was observed to be entirely different from that of cells treated with ratio and the roentgen rays. Following descrtion the cells were shrunker and shriveled and their nuclei were condensed and elongated but the cell outline could be made out. The tissue had assumed a mummified appearance. The blood vessels were thrombosed. There was no evidence of hemorthage

Following coagulation the cell outline was entirely lost and the affected tissue elements were fused into a structureless homogeneous mass suggesting hyalin leating.

ization The cell reaction in the zone adjacent to the area treated was studied in guinea pigs and rabbits. Small areas of skin subcutaneous tissue and muscle were subjected to desication or coagulation and the animals their returned to their cages. Sections removed several days later revealed practically the moved several days later revealed practically the top of the companion of the companion

The electrothermic methods depend for their results on the crisistance of the issues to the current which is manifested in the production of heat I and desceation the current is of comparatively low am perage and the degree of heat is only moderate but of sufficient intensity to cause complete exponition of the water content of the cells and to give the cell a murmified appearance. Since the mode of cell death is associated with very little degenerative change and disintegration only a small amount of fibrous tissue is formed as a result of descention of the content of

The coagulation method which requires a high amperage induces a more intense heat which not only dehydrates the tissues but causes coagulation of the cell protoplasm which results in a proportion ately greater amount of fibrous tissue

LIEWELLYN R LEWIS M D

### MISCELLANEOUS

#### CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Brannan, D. Ghloroma. The Recent Literature and a Case Report. Bull. Johns Hopkins Hosp Balt., 1020, XXXVIII, 180

The author reviews the literature on chloroma and brings the case reports up to 1925. He accepts the seventy four cases reported by Lehndorff in 1910 adds fifty five cases collected from the literature and reports one case of his own, this making a total of 120 positive cases of chloroma up to 1925.

In practically all of the author's cases the condition was based primarily on the blood picture and the histo logical structure of the tumor tissue and bone mar row. In all except a few cases of aleukæmia there was a definite, acute or obronic myelogenous

leukæmia

Brannan's patient was a young man suffering from my elogenous leukemia with graduall) developing and characteristic hard, flat cranial tumors evoph thalmos with marked visual and fundus changes, facial paralysis impairment of hearing, and symptoms resembling those of mastoiditis and otitis media. There was marked roentgenological evidence of in tracranial pressure and orbital and sinus growths. The white blood counts were relatively low for leukemia but rather typical of cobloroleukemia. This case is reported in detail with the autopsy indians.

The author believes that the green color charac tensic of coloroma is bound up with the myeloid

cells His conclusions are as follows

t Chloroma or chloroleuk-emia is a myelogenous process an unusual form of myelogenous leuk-emia 2 Aleuk-emie stages of chloroma are common whereas proved, true aleuk-emic forms of the disease are very rare.

3 Transitional or borderline and atypical cases cmphasize the close relation between myelogenous leukæmia and chloroma or chloro leukæmia

SHIRLEY C LYONS M D

Cochrane R C Notes on the Treatment of Surgical Complications of Diabetes Mellitus Boston M & S J 19 6 exerv 247

Diabetic surgery may be divided into that of election and that of necessity. Since the war considerable progress has been made in the treatment of diabetes. Insulin has proved of great value but there is danger of depending too much on insulin and neglecting sound surgery. Insulin aids in the preparation of the patient for elective surgery and is a safeguard against acidosis following the use of ether.

For all major operations on the lower extremity the author prefers spinal anæsthesia. Morphine and scopolamine may be used with it

For operations on other parts of the body he employs nitrous oxide oxygen or ethylene and gives a preliminary hypodermic injection of morphine Novocain may be employed, but Cochrane does not use it in the fect for fear of causing gangrene. It may be employed in clean cases with a good blood supply

Sepsis in dishetes is always an emergency because it lowers the tolerance for sugar. The possible bene fit of operation should never be denied a patient un less he is moribund. When the septic condition haven relieved much may be accomplished. In the cases of septic patients a hlood culture should always be taken before an operation but the operation should not be delayed for the report.

In the cases of very sick and infected diabetic patients operation should be done at once. The general condition may be improved by the subpectoral infusion of saline solution the administration of a soapsuds enema, and the administration of from too to 150 gm of carbohydrite in the form of an orange. Insulin is not indicated at this stage, but

can be used later by the physician

Carbuncle usually demands immediate operation In the author's cases kanavel's crucial incision method is used. The wound is then packed loosely with hot bone acid compresses and covered with others which are changed frequently for twenty four hours. The Carrel Dakin method is employed with Dakin a solution or dichloramine T In every case a good result has been obtained. Diabetics do not stand strong antiseptice.

Abscesses must be promptly incised as diabetics seem especially susceptible to infection. Stones in the gall bladder or elsewhere may convert a mild case

of diabetes into a severe one

Lesions of the feet almost always occur during or after middle age. The feet should be kept scrupiously clean and abrasions and blisters on the feet given careful treatment. In cases of infected or gain genous feet conservation is often possible. Localized affection of the toes does not require amputation Infected bone must be removed.

Primary gangrene is always the result of arterio selcrosis. In dry gyingrene there is no need for haste but the patient should be kept under close observation by the surgeon, put to bed, and given exercises to promote the circulation and burn up sugar.

In the cases of extremels sick patients with a virulent infection and gangrene amputation of the lower extremity is best done in the mid thigh. In most other cases a leg amputation will suffice to courniquet is used. Makery 81 Honary MD

1xxxv1 684

# GENERAL BACTERIAL, PROTOZOAN AND PARASITIC INFECTIONS

Pelouze P S and Viteri L E A New Medium for Gonococcus Culture J im 31 Ass 1026

The new medium for gonococcus culture described by the authors gives just as many positive first coll tures as other media but the grout but the first cultures a usually less luvurant. In subcultures however the growth is equal to that on other media. It all other respects except the luxurance of the first cultures the new medium is vastly superior to other media. It is made as follows:

A call's brain weighing approximately, 500 gm is forced through wide meshed gause into goo e em of distilled water and the fluid placed in the rebot for twenty four hours and then filtered several times through cotton of various degrees of compactness. To the resultant fluid which sturbid no matter how often it is filtered are added 0.5 per cent of and sodium phosphate and 7 per cent of peptione. The fluid is then autoclaved at a pressure of 15 lbs for twenty minutes and then kept as stock.

To complete the medium one part of the brain boullon is added to three parts of standard a 5 per cent agar medium made from veal broth with the addition of 0 5 per cent sodium chloride and 1 per cent of peptone. It is then adjusted to a Pb of 7 8 which allows for a reduction of two points in autoclaving 7 6 being the desired end point

The medium is then tubed autoclaved and slagited After it solidifies the tubes are coyled with stenle rubber corks to retain the water of condensation. After the medium has been completed and cooled there may be some flocculation in the butts of the tubes. This can be easily overcome by placing the medium in bulk in the autoclave quickly bringing it to a pressure of 15 lbs. and then after filtering and tulning it replacing it in the autoclave for completion of the sterilization. While this process improves the appearance of the medium it seems to cause some change in it which renders the cultures more scanty therefore the authors of not us. It

The article is summarized as follows

r Provided the medium is good gonococcus cul

ture is as easy as other ordinary cultures

2 Much of the literature on the culture of the
gonococcus should be rewritten because findings due

to faults in the medium have been interpreted as peculiarities of the germ 3. Our hest media heretofore have been difficult to make have frequently became contaminated by the necessary handling could not be sterilized by

to make have frequently became contaminated by the necessary handing could not be sterilized by heat and usually did not keep the germ alive for as simple to make as ordinary agar. It can be auto claved after at scompletion it gives as man positive first cultures as other media it grows the germ in definitely in subcultures and it retains the vitality of the germ for at least one month

# BIBLIOGRAPHY of CURRENT LITERATURE

NOTE - THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE OF THIS ISSUE ON WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

# SURGERY OF THE HEAD AND NECK

Cleidogranial dysostosis as a hereditary disease its relation to other forms of congenital dysostosis Gonov Moretra Chir d organi di movimento 1026 x 225

Fracture of the skull and extradural hamorrhage with symptoms of hypotension S SMITH Brit M I, 1026,

1 566 Angioma of the diploè E L Lanari and A M Mar QUE Rev Soc argent de radio y electrol 1025 1 70 A case of complete avulsion of the scale W L BROOKES

Indian M Gaz 1026 lxi 128

Facial anomalies Coll, Barrera, Ferráez, and Albés Rev de med y cirug de la Habana, 1926, VALDÉS DO ITEX

Notes on the operative correction of facial palsy V P BLAIR South M J 1926 217, 116

Primary and metastatic cancer of the head H L
Pollock J Michigan State M Soc, 1926 xxv, 131
A case of malignant pustule of the face G PACHECO

Arch brasil de med, 19 6 xvi 1

Studies upon the power of elimination of the salivary glands L BINET Presse med, Par 1926 YXXIV 229 A case of suprahyoid granuloma U Beggiato forma med , 1026 xlii, 147

The sequela of an unrecognized subcondylar fracture of the maxilla in a bover Rouvillois and Bercher Bull et mêm Soc nat de chir 1926 lii 26 Chronic hyperplasia of the upper jaw J A Jones J Larnygol & Otol 1926, di, 184

A tumor of the superior maxilla of salivary structure PATEL and MARTIN Lyon chir 1926 XXIII 119

Resection of the superior maxilla after ligation of the external carotid R V HERNANDEZ Rev de cirug Buenos Aires 1026 V. 41

Carcinoma of the lower jan E J KLOPP Surg Clin N Am, 1026 Vi, 181

## Eye

New orientations in ophthalmology E ADROGUÉ and J Lijó Pavía Semana méd, 1926 vxxiii 247 The symptomatic theory of vision new orientations in

the interpretation of the mechanism of the sense of smell L RICCITELLI Rev Soc argent de otormolaringol, 1925 1, 88

The mechanism of accommodation confirmed by experi mental data P OBARRIO Am J Ophth 1926 35 1x 90

Eye clinics at the Medico Chirurgical Hospital Phila delphia L W Fox. Internat J Med & Surg 1926 XXXIX ID4

Eye clinics in India D T VAIL, SR Cincinnati J M 1926 VII 27

Visual examinations of railroad employees P Lewis Internat J Med & Surg , 1926 XXIX, 119
A slit lamp M S MAYOU Brit J Ophth 1920, x,

The clinical importance of the use of light without red

rays in ophthalmology E Aprocué and J Lijó Pavía Rev Asoc med argent, 19 6 xxxx 30

Causes of blindness in youth H D LAMB J Mis souri State M Ass 1926 CMII 101
The needs of the blind and the new Colorado law

TACKSON Colorado Med 1926 XXIII 84 Anophthalmos congenitus in a puppy H WOOLLARD

Brit J Ophth 1926 x 131 Recent mechanical injuries to the eyes their examina

tion and management E Jackson Northwest Med Med 1026 XXV 138 Spontaneous rupture of the eyeball A A BRAMLEY

Moore Canadian M Ass J, 1926 xv1 299 Nystagmus E B DUNPHY Boston M & S J 1926

CYCIV 530 Miners nystagmus F FERGUS Glasgow M I 1926

Report of a case of large evostosis of the orbit success fully removed by operation A KNAPP Arch Ophth

On the diagnosis of intra ocular tumors E E BLAAUW Arch Ophth 1926 lv 159
A discussion on the white blood cells in the treatment

of infections of the eye A Zorab Am Med 1926 A case of night blindness due to ascaris lumbricoides

infection A R HARIGOPAL Indian M Gas 1026, |vi

The result of treatment by artificial light on phlyctenular and other tuberculous lesions of the eye A B Nurr But J Ophth 1926 x 138

Ocular complications of leprosy A O Princer Am J Ophth 1920 3 S 18 195 On the use of the slit lamp in the differential di ignosis

between glioma and pseudo glioma T H BUTLER Arch Ophth 1926 ly rss The operations for glaucoma S A DURR Am J

Ophth 1926 3 S 1 174 Ossification of the eye J Lijó Pavía Semana méd

1926 XXVIII, 606 Afenil a warning L L Mayer, Am I Onhth. 1926 38 IT 193

Navus tumors of the eyelids and of the conjunctiva P VEIL Presse med Par 19 6 xxxiv, 234 Serous tenomits G N Brazeau Arch Ophth, 1926,

Two cases of metastatic tuberculosis of the conjunctiva and the tarsus L Lijó lavfa and M Dusseldorp Rev Soc argent de tisiol 1926 1 46

The surgery of trachoma practical problems S L
ZIEGLER J Am M Ass 1926 lexxvi 399 [3]
Divergent strabismus B W Egan J Indiana State M

Ass 1926 viv not Reasons for the early treatment of squint M F MEYMAN. California & West Med 1926 xxiv 338 The surgical treatment of non-paralytic strabismus

J ff DUNNIGTON Virginia M Month 1926 lin

Concomitant esotropia G A Suffa J Ophth Otof & Laryngol 1926 xxx 82

The influence of dacryocystorrhinostomy on the hac tenological condition of the conjunctiva J BASTERRA Med Ibera 1926 v 189

Verophthalmia in infants St G T Grinsan Vir ginia M Month 1926 his 166

Report of a case of melanosarcoma of the palpehraf conjunctiva illustrating the malignancy of such growths W C Posey Arch Ophth 1926 by 131 Report of a case of tuberculosis of the sclera C King

Cincinnati J M 1926 vii 38

Basophilic staining of Bruch's membrane F H
VERHOLFF and R J Staon Arch Ophth 1926 iv

A case of keratitis punctata superficials improved by the use of conjunctival flaps A L Brown Arch Ophth 1926 by 136

Ulcer of the cornea M C BAKER Kentucky M J
10 6 xuv 1 t
The Ziegler through and through operation for trau
matic cataract L W Detertier Am i Oblith 1026

3 S IV 197
Senile cataract ocular injury tracboma pteryguro and detachment of the retina L W Fox Clin Med 1926

Senile cataract extraction E A KNORR Am J

Ophth 1926 3 5 1x 186
Delirium following cataract operations Γ C Thomas kentucky M I 1926 xxiv 134

Field and fundus chan es in endocrine disfunction Tield and fundus chan es in endocrine disfunction W. D. ROWLAND. Am. J. Ophth. 1926 3 s. 12.78. Choked disk, and vitrous opacities following fracture of skull. C. I oen. Am. J. Ophth. 1926 3 s. 12.81. 13. Coloboma of the macula associated with other con

genital anomalies J J HORTON Am J Ophth 1926 3 8 17 196 fd:pp:thic detachment of the retina report of two cases with operation and recovery fi L Stoan South M

J 1926 UN 2 S
Glioma of the retina F NACLE J Ophth Otol & Laryngol 1926 VN 111

Some essentials of glioma of the retina C W RUTHER FORD Am J Ophth 1926 3 s ix 171 [4]
Three cases of optic nerve involvement J V F Clay

J Ophth Otol & Laryngol 1926 vex 101
Local anæsthesia in eye ear nose and throat surgery
J I Wynn Kentucky M J 1926 xxiv 127
General anæsthesia in eye ear nose and throat surgery

General anæsthesia in eye ear nose and throat surgery
W. H. Long Kentucky M. J. 1926 xxiv 146

## Ear

Some recent otological problems R F Nager Arch Otolaryngol 1926 iii 252 The importance of ear nose and throat diseases in in

The importance of ear nose and throat diseases in in dustrial efficiency I D Kelly Jr J Missouri State M Ass 1026 viii 106

Malingering deafne > tests in its detection and a report of two cases J C SCAL Arch Otolaryngol 1926 m 237 A new method for testing hearing S Cohey and D NUSSBAUM Arch Otolaryngol 1926 in 242 The relation between the semicircular canals and move

ments of the eyes in man E Adrogué Rev Soc aregnt de otornnolaringol 1025 1 59
Acute toxic labyrinthitis VASILIU Arch internat de

latyngol 1926 xxxii 313
Some considerations of syphilis of the labyrinth P L.
ERRECART Rev Soc argent de otorrinolaringol 1925

The progness of middle car suppuration in children
D Guringiz Edinburgh M J 1926 vvviii Med Chir
Soc Edinburgh 40 [4]

Lymphangris adenits and adenophlegmon of the mas toid region R Bzcco Semana méd 1926 xxxiii

342
Mastorditis in the deep middle cells and its course G
Bilancioni and S Traina Policlin Rome 1926 xxuii
sez prat 329

An investigation of the end results of sixty cases of radical mastoid operation with special reference to hear into J A keev J Laryngol & Otol 1926 xl1 145

#### Nose and Sinuses

A reconsideration of the sense of smell J L Halliday Glasgow M J 1926 ev 182

Rhinoplasty with a graft of costal cartilage P Mon NARD Bull et mem Soc d chirurgiens de Par 1926 aviii 24

Sympathetic phenomena in rhinology HALPHEN and TERRACOL Arch finternat de laryngol 1926 xxxii 266 Some observations on asthma by a rhinologist T W

MOORE South VI J 1926 vax 226
Chemical and biological studies of the nasal mucus its proteolytic and amylolytic properties C Torrigiant Spermentale 1922 Evil 1082

Studies on the common cold I Observations of the normal bacternal flora of the nose and throat with variations occurring during colds G S STRIETY F U Historic and A R Docurry J Exper Vied 1946 Jun 415

415

Acute rhimitis and pharyingtis J S Ullima Acw

Acute rhuntis and phary nguis J S ULLIAN New Orleans M & S J 1926 Exxviii 674

Small perforations in the misal septum and a method of treatment J N Poy Arch internat de laryngol 1926 XXIII 307

The surgical treatment of ozona Belinoff Arch internat de laryngol 1926 xxxii 24 Local vaccination for ozona and particularly intra

maxillary sinusitis Rebattu and Proby Arch internat de laryngol 1926 xxxii 63.

The treatment of nasal affections by changing the form and position of the inferior turbunate. Bothat Arch

and position of the inferior turbinate BOURAL Arch internat de laryngol 1926 xxxii 53

Galvanocautenzation in rhinology fielsmoortel Arch internat de laryngol 1926 xxvii 162 Anerrer in diagnosis abscess of the nasopharynx? Bursatis of Tornwaldt? P. L. Errecart and L. Samengo

Rev Soc argent de otorrinolaringol 1925 i 14t Tumor of the nasopharynx treated with radium BÉ RARD and SARCHON Lyon chir 1926 XXIII 113 Nasopharyngeal fibroma A F CLARL. Texas State

J M 1926 vti 658

Anatomical and roentgenological studies of the sinu es

of the face H BECLERE P I DRCHER and R GUEUL LETTE Ann danat path 1926 in 49 Investigations on the development of the sphenoidal

smus P If G Van Gilse J Laryngol & Otol ro 6
zh 137

Acute sinusities F B SARGETT Rhode Island M I

1026 17 18

A report of two cases of primary syphilis of the nasal cavities Podesta Arch internat de laryngol 1926 TTTU 81

Empjema of the frontal inus cale report M D GRIFFITH Lentucky W J , 1926, Cav 143

Mucocele of the frontal sinus A BEVOIT Arch internat de laryngol 1976 xxxii 316

A report of fifty four cases of malignant neoplasms of the antrum of Highmore B T SCREETER Irch Clin Cancer Resear h 1925 1 65

## Mouth

Some points in the anatomy of the capillary of the tooth pula A W Writings Proc Roy Soc Med Land 1026 xix Sect Odontol 27

A case of exposure of the dental pulp of uncertain ongin G B PRITCHARD Proc Roy Soc Med Lond, 1926 tit

Sect Odontol 23

Dental conditions likely to form sources of infection

B J Ropmay But M J, 1926 1 564

Actes of a complicated removal of a third molar fatal sequel W HARRISON and E W LOWE Proc Rey Soc Med Lond 1926 ux Sect Odontol, 24

Tooth extraction with fatal hamorrhage F Aron

Arch f kim. Chir 1925 CXXXVII 389
Repair of complete division of the soft palate by publica tion of the palatine tonsils in cases considered inoperable functional results of this method J E Sheanay Arch

internat de laryngol 1926 xxxii 31 Mouth infections their symptoms and effects I L T

APPLETON Med J & Rec 1926 CCOM 35t
Ulcerating membranous stomatitus P L EXECUTY and R BERGARA Res Soc argent de otorrinolaringol, 10 5 1 121

Tuberculosis of the oral cavity C II WARDRON

Minnesota Med , 19 6 18 131 An interesting case of Ludwig s angina with a favorable outcome W Hervey Denial Cosmos 19 6 Irvin 226

Common warts of the mouth W D Davis

sours State M Ass 10 6 xxiii 00

Hamangioma cavernosa of the tongue H BACM GARTER Schreiz med Uchnschr, 1925 la 1030 Carcinoma of tongue G H SEMREN Ann Surg

19 6 IXXXII 417 Carcinoma of the anter or floor of the mouth-Sedillot operation G H Senkey Ann Surg 2926 laxxiii

Results obtained in the treatment of cancer of the oral cavity by radiation B I SCHREFTER Arch Chin Cancer Research, 1915 1 50

The frestment of intra-oral carcinoma by contact ap-

plication of radium G W GRIER Am J Roentgenel 1910 X1 210

Radium emanation in the treatment of carcer of the tongue and other parts of the oral cavity I E Smireo. and R E FLESHER im J Roentgenol 1926 x1

An investigation of the results obtained in cancer of the tongue treated by radium and the roentgen rays B F Schwerver and H F R Brows Am J Reentgenol. 1026 X1 207

Curie therapy of epidermoid carcinoma of the inteaoral group as carned out at the Radium Institute Paris M LTX1 Am J Roenigenol 1926 To 210
Hemiglossectomy for tongue cancer W S SCHLES

Ann Surg 1026 Ixxxii 420

Pharinx

Pharyngeal infection and its importance 3 M Pirro URPAPILLETA Arch de med cirug y especial 19 6

Acute pemphigus of the throat with positive Vincent's angina H A MACGRUER and A H RUBENSTEIN Arch Otolaryngol 1926 111 259

Some lessons of the mucosa of the upper respirators tract due to leprosy BARANGER and PSERROT Arch internat de laryngol 19.6 saxu 58

The importance of the lingual tonal in the pathology of the throat A D Croppa Reforma med 1926 vin

114 A case of chronic enlargement of the ton ils requiring emergency tracheotomy A B K WATEENS Med ]

Australia 1926, 1, 273 Sluder's technique in tonsillectomy A A CASTACE

Rev méd d Barcelona 1923 11 532

Submucous endocapsular tonsil enucleations in hyper thereids with injected tonsils C C VILLER Med , 1916, xxx11 190

Tousillectomy in the tuberculous Minnesota Med 1926, ix 124 H NEWHART

Complications following tonsillectomy H H LOTZ Milantic M 1 19 6 TELY 38,

End results of tonsillectomy with especial reference to the legal responsibility. T. J. HARRIS. J. Am. VI. Ass.

19 6 lunxy 830

Vasality a common condition after tonsil and adenoid operations I I LEVBIRG Med Times 1926 in

Remarks on tumors of the pharyngeohypophyseal tract L CORNEL Ann danst path 19 6 m 237 Epithelioma of the left tonsillars fossa cured by rathe-

therapy Baldevilleck and Parez. Arch internat de larvagol 1926 xxxx 77

Teratomi of the throat A E Buser Jr Arch Otolaryngol 1926 in 262

The surgery of malignant disease of the pharynx TROTTER But M J 1926 1, 269

## Neck

Basal metabolism its physiological and clinical applications Bignood Bruxelles med 19 6 17 423

The ordinary types of thyroid disease E H Pool Am o, ix oser grud [

Calcarma and glycarma in thyropathic patients with increased basal metholism C P NALDORF and P A TRELLES Rev. Soc argent de bud, 19 5 1, 16 1 method of palpating the lobes of the thyroid F H INRE J Nat N Ass. 1916 Parary 513

Some problems in the diagnosis and treatment of simple

goster W H Higgies Linguis M Month 10 6 Some clinical aspects of simple goiter with remarks on

its causation Sin J Berna Lancet 1926, cen 269

Observations on gotter in children H I CRONE

Bet J Child Dis 1925 xxiii 3 Langual goder V PAUCHET Bull et mém. Soc d chrungens de Par 1926 xxiii 36 Engual goder removal followed by mytorleua Guggan d J 1926 c 225

The substernal thyroid D FEIBERBAUM and B FINE SHIVER Am J M Sc 1926 cles 218

The basal metabolism and evaphthalmos in hypothyroid ism Blanco Soler Arch de med cirug y especial 1926 VII 260

The diagnosis of hyperthyroidism E F DuBots Am J Surg 1926 xl 71

Hyperthyroidism-a report of 125 cases J L MARTIN I Nat M Ass 1026 Evin 6 Hyperthyroidism in children R S DINSMORE Surg

The medical treatment of hyperthyroidism FOSTER Am J Surg 1926 xl 72

Gynec & Obst 1926 xlii 172

Hyperthyroidism treated by X rays A E BARCLAY and F M FELLOWS Lancet 1926 ccv 593

Experimental thyrotoxicosis the thyroid and its in fluence on gastric secretion S Budylkes Russkan

Klin 1025 11 100 Thyrotoxic states and associated neurasthemic con ditions P Marcovicii Riforma med 1026 the 81 Dystrophies and dyschromias of the hair in exophthal mic goiter and experimental hyperthyroidism P Sain

TON and I PEYNET Buil et mem Soc med d hop de Par 1926 vln 493

The prognosis in evophthalmic goiter J M READ Am J M Sc 1926 clvvi 227 [6] A comparative study of the effect of two different prey arations of iodine upon the pre-operative basal metabolic rate in evophthalmic goiter R R Firzgrand Canadian

M Ass J 1926 TVI 159 The surgical treatment of Basedow's struma W ISLER

Schweiz med Wichnschr 1925 lv 938 The surgical treatment of exophthalmic goster D PRAT

Rev de cirug Buenos Aires 1926 v 16 Total thyroidectomy in thyrotomeosis of the exophthal mic type a preliminary report P K GILMAN and W E Am J M Sc 1926 clwn 239 A discussion of goiter therap) J L DECOURCY Cin

cinnati J M 1925 vn 32 The effect of thyroidectomy and of thymectomy in experimental syphili of the rabbit L Pearce and C M VAN ALLEN J Exper Med 1026 xlin 207

The fate of the blood supply of the thyroid after thy roidertomy with special regard to the formation of a new thyroid capsule H Geiger Beitr z klin Chir 1026 CYXYON 583

Exterpation of the parathyroid gland in the domestic fowl HIROTERU YAMAGEA Acta scholae med univ imp Lioto 1925 vii 583

The diagnostic criteria of chronic parathyroid insuffi ciency with special reference to the phosphate content of

the blood L BERMAN Am J M Sc 1026 class 245 Chuical applications of parathyroid hormone (Collip)

O II PETTY W II STOVER and H W SCHAFFER Therap Gaz 1926 1 173 The motor nerve terminations in the larvageal muscles

TANTURRI Riforma med 1926 vlu 18 Two cases of laryngeal paralysis secondary to gunshot wounds A Spick and R VILLIÈRE Arch internat de laryngol 1926 vvoi 160

The dorsal sitting position for making direct laryngeal

and upper resophageal examinations J P DERIVER M Ass 1926 levevi 748 The treatment of laryngeal tuberculosis with the Goerz Wessely lamp J W MILLER Med J & Ree 1926

661 11772 The treatment of laryngeal tuberculous R S MOORE N York State J M 1920 XXVI 247

Blastomycosis of the laryny C JACKSOV Otolaryngol 19 6 111 90

The results of tracheolaryngostomy II Bist Rev Soc argent de otorrinolaringol 1025 1 135 A discussion of laryngeal cancer in women H Zubi ZARRETA Rev Soc agent de otornnolario. 1025 i

Economic laryngectomy laryngostomy and laryngoplasty P SEBILEAU Bull et mem Soc nat de chir 1926 tu 173

# SURGERY OF THE NERVOUS SYSTEM

Brain and Its Coverings Cranial Nerves

The treatment of acute traumatic cramocerebral in junes A S Maclaire J Am M Ass 1926 leave 670 The treatment of acute brain insuries C C Nasit Texas State J M 1926 xvi 666

Temporosphenoidal abscess case report II G REY NOLOS and H D ABELL Kentucky M J 1926 TM: 124 Encephaliti following operations on the temporal bone

I A Joves Lancet 1926 cer 493 Cerebral absce s V F Gallay Chn y lab 1926 xii

Broca s motor aphasia an interesting case of trauma of the head complicated by cerebral abscess G Scorgo Policin Rome 1926 txxui ez prat 437

Two ca es of cerebral abscess operated upon by Le maitre s method R LUND Arch internat de laryngo 1026 XXXII 120

126 XXXII 129
Infundibulohypophyseal infantilism and its relat 1
Arch traumatisms of the cramum K H KRABBE Re de Barcelona 1926 m 157

Thyroid opotherapy in dyspituitarism J Wr. Es m in Ass 1026 lyxxvi 820

Hypophyseal operations A Laure Schlaer and a report The pineal body P T HERRING Lance 1 19 6 m

The value and safety of a simplified method of pneumo encephalomy elography F LIBERSON Am J Rocatgenol 1926 XV 231 The value of the ventriculogram in the localization of

cerebral tumors R Noble Med J Australia 1926 1 268 The surgical technique of pneumoventriculography with illustrative case R B P Movsov and Arch internat 1926 1 271 The diagnosis of brain affections by changing the form

State M Soc 1916 Inferior turbinate BOURAK Arch Present day or interior turbinate

tauterization in rhinology HELSMOORTEL Bra fautermat de laryngol 1926 xxxii 162

Burstis of Tornwaldt? P L Terrecurt and L Same Co Rev Soc argent de otormolaringol 1025 1 141

Tumor of the nasopharynx treated with radium BE
RARD and SARGNON Lyon chir 1926 xxiii 113
Nasopharyngeal fibroma A I Clark Texas State

I M 1026 xv1 648 Anatomical and countgenologi al studies of the sinuses

of the face H BECLERE P LORCHER and R GUEUL LETTE Ann danat path 1926 in 49 Investigations on the development of the sphenoidal

sinus P H G VAN GILSE J Larymool & Otol 19 6 xh 137

661

A secondary metastatic cerebral tumor secondary to a primary cancer of the lung in a syphilitic patient BROWAR DEL RENARD and LOTTE Bull et mem Soc med d hop de Par 1926 du 427

Two cases of cerebral aneurism causing ocular symptoms with notes of other cases J A Cowway Brit

Ophth 19 6 x, 78

Patent interventricular septum. W Brown and J CRAIG But M J 1926 1, 577

The operative treatment of hydrocephalus W SHARPE. Rev de med y cirug de la Habana 1926 xxx1 79

A new treatment of pneumococcus memngits J Savra-Olalla Esquerdo Rev méd de Barcelona, 1926 ш 146

Statistical aspects of tuberculous meningitis ] L HALLIDAY Edinburgh VI J 1926, xxxiu 160 Acute tuberculous meningitis confirmed by bacterio-

logical examination rapid recovery maintained thirty two months later VEDEL GIRAUD, and PUECH Bull et mem Soc med d hôp de Par, 1926 du 388

Meningitis carcinomatosa report of a case T G MOORHEAD and T J WICHAM Irish J M Sc 1926 P

Invasion of the intracranial venous sinuses by a menin gioma (Dural endothelioma) E B Towne Ann Surg 1026, lxxxiii 321

Facial paralysis following angesthetization of the ear muscles by the injection of novocain F Bock. Ztschr f

Hals \asen u Ohrenheilk , 192, xiii 158 The sphenopalatine syndrome and the gasserian syndrome F LEvy Arch internat de laryngol, 1926, XXXII

The sphenopalatine syndrome and the gasserian sy drome G Worsts Arch internat de laryngol, 19 6

XXXII 238 The sphenopalatine syndrome and the gasserian syn rome J Bourguer Arch internat de laryngol, 1926 XXXII 264

Corocal ulcer after alcohol injection of the gasseman ganglion, Peterson Ann Surg 1926, lxxxii 434

Partial neurectomy of the sensory root of the gasserian ganglion in trifacial neuralgia with preservation of corocal sensation A S TALLOR Ann Surg, 1926 LXXIII 196

The radical treatment of trigerunal neuralgia E Sacus J Missouri State W Ass 1926 xxiii, 43 Syphilis of the vestibular nerve and of the labyrinth P L ERRECART Rev Asoc med argent 1926, xxxx 5

A cerebellar cyst simulating a tumor of the right acoustic nerve operated on by the translabyrinthine (Pan.e) method W B Brownie and J M Wishart J Laryn gol & Otol 1926 xli, 178

Glossopharyngeal neuralgia and its surgical relief A O SINGLETON Ann Surg 1926 LEXXIII 338 Tic douloureux of the glossopharyngeal nerve

MILLER Ohio State VI J 1926 xxii, 214 The surgical treatment of tic douloureux G P Mills Bnt M J 19 6 1 417

## Spinal Cord and its Coverings

A care of embolism of the spinal tord M P CHACKO Indian V Gaz 19 6 ku, 130

Staphylococcus meningitis secondary to a congenital sacral sinus with remarks on the pathogenesis of sacro-coccygeal fistulæ T S Moise Surg Gynec & Obst.

The differential diagnosis between medullary and para vertebral tumors A. M MARQUE Rec Soc argent de radio y electrol. 1923 1 33

An extramedullary tumor of the spinal cord simulating abdominal malignancy DeW Sterrey Ann Surg 1026 lvenu, 285

Sarcoma of the spinal cord V M SYNCE, A R PAR SOYS, and L ABRAHAMSON Brit M I 1926 1 531

## Peripheral Nerves

The Stoffel operation for spastic paralysis A B Gill Surg Clin N Åm 1926 vi 157

Phrenicotomy H DUFOUR Bull et mêm Soc méd d hop de Par, 1926 xlu 123 Radical phrenicotomy for tuberculosis W H THEARLE

J Am M Ass 1026, lexxv1 811 Phrenic evulsion as an aid in the treatment of pul monary tuberculosis and bronchiectasis H M Davies

Bnt M J 1926 1 315 Three cases of phrenicectomy P Moure P CANTON NET and L LEBÉE Bull et mém Soc méd d hôp de

Par 10 6 xln 168 Considerations on phrenico-exercis ROMERO ALONSO Valleorba and Ruiz Prog de la clin Madrid 1926, xiv

## Sympathetic Nerves

The tonus of the sympathetic nervous system in the course of hyperthyroidism A KRAUSE Bull et méro Soc med d hop de Par 1926 thi 98

The neurovegetative system in adenoid patients REBATTU and PAUFIQUE Arch internat de laryngol 1926 XXXII 15-

The effect of the sympathetic nervous system on the peripheral vascular system an experimental study W B Mosser and K P A TAYLOR, Arch Surg, 19 6

The anatoroy and physiology of the cardio-sortic sen sory paths in man their surgical importance and patho genesis and the surgical treatment of angina pectons D DANTELOPOLU Presse med, Par 1926 xxxv 113

Penartenal sympathectomy N Winston Ann Sur 1926 Ixxxii 333 Penartenal sympathectomy J W VILARDELL Presse

méd Par, 1926 1231v, 162 The effect of penartenal sympathectomy upon the cir

The effect of penantum asymptotic Orvosi hetil 1923,
[13] The emportance of the vascular sheath on regenerative

processes Iollowing penarterial sympathectomy C GAR GANO Ann stal dichir 1026 v 61 Peptone shock and parasympathetic tonus L GAR RELON and D SANTENDISE Presse med Par, 1026

XXXX 243 Observations on the relation of the sympathetic nervous

system to skeletal muscle tonus F D Cours Bull Johns Hopkins Hosp Balt 19 6 xxxviii 163

The surgery of painful and perverted coenzesthesia R LERICHE Lyon chir, 1926, xxiii 60

Some phenomena observed after section of the lower

cervical and first dorsal rami communicantes R. Leriche and R FONTAINE J de chir 1926 xxvii 143

Causalgia at the edge of the amputation stump of the right thigh with division of the lumbar rami communi captes and division of the right sympathetic trunk L. Bazy and G LATAIX Bull et mem Soc nat de chir 1026 ln 46

# Miscellaneous

The temperatures of the cerebrospinal fluid. L Giverne and L. MANNINO Sperimentale 1923 IXXIX 1059

The dextrose content of the cerebrospinal fluid in certain nervous and mental diseases E B Save I Med Ass Georgia 19 6 Tv 92 Spinal puncture as an aid in neurosurgical diagnosis I G LYERLY Virginia M Month 1026 hu 763 The technique of cisternal puncture and its application

in the treatment of general paralysis by assemblized serum B T Epye Med J Australia 1926 1 272 The technique of cisterna puncture E Osana Deutsche med Wehnschr 1925 h 1783

The principles of treatment in relation to diseases of the nervous system E F Buzzard Lancet 1026 ccv 377

484 641 A case of apparent homolateral hemiplegia N VINER Canadian M Ass I 2026 VI2 207

Skeletal changes in spastic paralysis C RONDE Muenchen med Wichnschr 1925 Ivvii 1874 Reaction of degeneration F H Morse Med Herald & Physiotherap 1926 xlv 61

The relation between the basal metabolism calcamia and the excitability of the sympathetic nervous system in

acromegaly C P WALDDRP Rev Soc argent de hiol 1925 1 743
Von Recklinghausen's disease of neurofibromatosis

M L BRIDGEMAN Northwest Med 1026 xxv 111 A new case of Recklinghau en a disease with osseous dystrophy Laigner Lavastine and Valence Bull et mém Soc méd d hôp de Pas 1026 xlu 273

Alcoholic injections into nerve tissues for the relief of Dain G I Speriou Am 7 M Sc 1026 clrst 307

# SURGERY OF THE CHEST

#### Chest Wall and Breast

Tumos of the thoracic wall TAVERAGER Lyon chir

1926 TELL 110 Tumors of the breast J D ELLIOTT Sur. Clin A m 1926 vi 161

Cysts of the breast a stati tical study F E BUNTS Ohio State VI J 1926 Ttil 209 The clinical and pathologico anatomical diagnosis of

tumors and cystic changes in the breast W FISCHER Deutsche Zischi f Chir 1925 excu 1 Reclus a disease a clinical anatomical and pathological contribution E DE BELLA Riv ital di ginec 1926 iv

Indocanalicular papilloma of the female and male breast A M Docttofff Areb ital di chir 1925 xiv

Cholesteatoma of the breast '\ Tunco Ann stal di

Cances of the hreast in pregnancy J C Antumada Semana méd 1926 txtsu 567 What every doctor should know about the breast

C BLOODGOOD Aich Clin Cancer Researth 1925

The propes co-ordination between surgery radium and Yeary therapy in cancer of the hreast I Levis Arch Clin Cancer Research 1925 1 31

The treatment of cancer of the breast from the viewpoint of a radiologist A Soft and Arch Clin Cancer Research

IQ25 1 47 The cancer problem of the female breast-an analysis based upon twenty five years personal experience with radiation therapy A Solland Arch Clin Cancer

Research 1925 1 53 New orientations of the X ray treatment of cancer of the breast García Donaro Prog de la clin Madnd 1926 XXXIII 40

Sarcoma of the hreast P Wiarr Bull et mem Soc nat de chir 1026 lu 227

## Trachea Lungs and Pleura

The roentgenographic demonstration of the trachea and bronchi A C FURSTENBERG and P M HICKEY Am 1 Roentgenol 1925 tv 227

Four cases of tracheal tumor J Abase J Laryngol & Otol 1026 xli 174 Research on the elasticity and plasticity of the internal organs IV The lung a contribution on the problem of emphysema of the lungs KIMIYUKI Ilirakawa Acta scholae med unit tmp kioto 1925 vii 241 Peroral endoscopy L II CLERF Arch Otolaryngol

Bronchoscopy as an aid in the diagnosis and treatment of suppurative diseases of the lung R M LUKENS Colorado Med , 1926 xxIII 78

Broncho-copic aids in thoracic surgery L. II CLERP Surg Clin \ Am 1026 v1 281 The value of contrast media in the bronchi for the

demonstration of bronchiectases LOREY Fortschi a d Geb de Roentgenstrahlen toas xxun 58

A case of dulation of the bronch greatly benefited by phrenicectomy G LAROGIE and BERTRAND-FORMUZ. Bull et mem Soc. med d hop de Fa; 1926 zlu 450 Visualization of hepitobronchial fistulis by retrograde filing with bodiered of P Escupace II M Terrany and M M Gallino Arch argent de enferm d apar digest (151

2925 1 t\$9 Foreign bodies in air and food passages with special reference to those not casting \ ray shadows E L \ Myers Illinois \ J 1026 \ dix 243

Suppurative diseases of the lung due to an inspirated foreign body contrasted with those of other etiology C JACKSON Surg Gynec & Obst 1926 zlu, 30, Pulmonary streptothricosis a cultural study G Gin-

DINGS South M J 1926 XIX 160 An unusual cause of pneumothorax B Morcus Lancet 1026 ccv 636

Pneumothorav in young children with an account of a case A Moncriery But J Child Dis 1926 vine

A new apparatus for artificial pneumothorax S PISANI Polichn Rome 1926 txviii sez prat 305 Manometric pressure in treatment by artificial pneumo-

thorax E Curti Policlin Rome 1926 xxxiii sez prat Indications for artificial pneumothorax P M MATTHE

and M H WALL Minnesota Med 1926 ir 103 Spasmodic muscular syndrome in the course of artificial pneumothorax E Leurer and J Caussimov I de med

de Bordeaux 1926 ciii 143 Pulmonary perforation and mediastinal herma in at tificial pneumothorax G Savigo Med Ibera 19 6 x

Simultaneous bilateral pneumothorax P F Zuccola Policlin Rome 1926 TTUI sez prat 81

Simultaneous artificial bilateral pneumothoray E Grava Polichia Rome 1926 vvviii sez prat 84

The frequency of pulmonary perforation in the course of double simultaneous pneumothorax R BURNAND Bull et mem Soc med d hop de Par 1926 xlu, 369

Partial selective pneumothorax and double pneumo thorax C YALABARDER Rev méd de Barcelona 19 6, 111 263

Non pneumatic lung collapse H F GAMMONS Boston M & S J, 1926 CKCIV 538 A case of spontaneous pyopneumothorax A STAINER

Policlin , Rome 10 6 xxxiii, sez prat , 16 Thoracoplasty for pyopneumothorax BERAED and

GUILLEMINET Lyon chir 1926 xxiii 73 Thoracoplasty for tuberculosis of the lungs M Benr END Surg Clin N Am 19 6 vi 227

Thoracoplasty in the tuberculous A A I in Minne sota Med 19 6 is, 126
Clinical and anatomical recovery in a case of grave

pulmonary gangrene autopsy A Lemterre, P N Drs CHAMPS, and A DURBUY Bull et mem Soc med d hop de Par 1926, xlii 403 Gangrenous abscess of the lung A Coxon and V

OUMANSKY Bull et mêm Soc méd d hôp de Par

1926, rls 379 Studies on the relation between tumor susceptibility and heredity III Spontaneous tumors of the lung in mice

J LYNCH J Exper Med 1926 vlin 339 Considerations on solitary neoplasm of the lung M G

FAURE Semana med 19 6, vxviii, 617

A case of serofibrinous streptococcic pleuris, with late suppuration C AUBERTIN and WIDIEZ Bull et mem Soc med d hôp de Par 1926 thi 430
Associated organisms causing empyema H F

BOLDERO and L E H WHITBY Lancet 1926, ccs [16]

Empyema in children G B PACKARD JR Colorado Med 1026 von 88 (16) Empyema in a child J H Jopson Surg Clin N 1m

1926 VI 130 Purulent pleurisy due to the pneumococcus treated with Mendez serum by the intrapleural route B Soria Semana med 1926, \*\*\*\*\*\*\*\*, 204

## Heart and Pericardium

The morphology of the heart in a woman affected with fibroma of the uterus I BACIALLI Riv ital di Linec

10 5 11 81

Lipiodol in roentgenological examination of pencar dium M R CASTEX H CARELLI and H GONZALEZ Bull et mém Soc méd d hop de Par 1926 xlu 217 The surgical treatment of acute pericarditis of prob ably tubereulous origin Duguet Bull et mem Soc

nat de chir 19 6 lu 4

The roentgenological examination of pericarditis with

effusion before and after puncture TROMMEL and EGHIA YAN Rev méd de la Suisse Rom 10 6 xlv1 105

A case of contracting synechia of the pericardium with operation and recovery M LJUNGDAHL and E TENGWALL Acta chirurg Scand 1926 lix 490

Pencardial effusion of tuberculous origin J GRACIE Lancet 1926 ccx, 598 Cardiolysis TUFFIER Bull et mem Soc nat de clur

rg 6 hs 85
Tuberculous perscarditis treated by local injections of

lipiodol A Lemaire Bull et mém Soc méd d hôp de Par 1026, xlu 166

A case of pericardial adhesions relieved by resection of the costal wall in the precordial region A BERGERET B THEODORESCO and H HARIMANN Bull et mem Soc nat de chir, 1926 ln 7

# (Esophagus and Medlastinum

Two cases of extraction of foreign bodies from the eesophagus P Castagya Policlin Rome 1926 xxxiii sez prat 158

Observations on a case of pericesophagitis due to a foreign body in the esophagus D DI VESTEA Polichin

Rome 1926 xxxxx sez prat 155 A case of congenital stenosis of the resophagus C C BEATTY Proc Roy Soc Med , Lond , 1926, vix Sect

Study Dis Child 38 Obstruction of the esophagus by a calcified intratho racic gland E KEY Hygiea Stockholm 1925 lxxxvii

[16] Cicatricial stenosis of the ocsophagus L H CLERF

Surg Chn N Am 1926 vi 273 Report of a case of stricture of the esophagus following

burn with lye W G SHENELEY J Ophth Otol & l aryngol 1026 777 113 Intubation of the esophagus for carcinomatous stricture

M C MYERSON Am J Surg 1926 tl 56 The treatment of cancer of the esophagus with radium

J GUISEZ Bull et mem Soc med d hop de I ar , 1926 Mu 8 Total antethoracic resophagoplasty C PLECHTEN

MACHER JR Wien med Wchnschr, 1925, lxxv 2590 A pulmonary lobule in the mediastinum I CATEULA Rev de cirug Buenos Aires 1926 y 95
Adhesive mediastinopericarditis E E MURPHEY J

Med Ass Georgia 1026 v. 8r

A method for estimating the size of the thymus F O Coe Am J Roentgenol 1926 xv 22

A roentgen study of five hundred children for thymic enlargement C W PERKINS Am J Roentgenol 1926 tr 216 Studies on the histogenesis of autoplastic thymus trans

plantations J M GOTTESMAN and H L JAFFE J Exper Med 1926 viii 403

## Miscellaneous

The imperfections of the stereoscopic maneuver in radi ography of the chest J J WARING and W W WASSON Radiology 1926 vi 198

The curious trajectory of a foreign body in a child A LARGUÍA and M J VERGNOLLE Semana méd 1926 XXIII 432

# SURGERY OF THE ABDOMEN

## Abdominal Wall and Perstoneum

A fistula of appendiceal origin in the scar of a laparotorov wound made for subtotal hysterectomy GUYOT PRINCE TEAU and MAGNAN Bull Soc dobst et de synée de Par 1926 XV 56

Cancer of the umbilious secondary to cancer of the cæcum J R HEAD Surg Gynec & Obst 1926, xlii

A persistent omphalomesentene duct and urachus in the same case H H Davis and F W NIEHAUS J Am M 1ss 1926 ltxxv1 685

1026 YII I

Some rare types of primary hernia of the abdomen

R ALAMANNI Riv ital di ginec 1926 iv 253 Strangulated bernia A J Beller and R Colp Am J Surg 1926 xl 65

A strangulated herma in an infant 19 days old with recovery B R Belleran Surg Clin N Am 1936 w 196
A strangulated inguinal herma on the right side containing the onary with its pedicle twisted Marinizu and
Mostral Bull et mém Soc nat de chir 1936 lis 176
Double inguinal herma in misnoy a new mission I 176
Double inguinal herma in misnoy a new mission II 76

MORRISON Lancet 1926 cc 656

The appendix in a left inguinal herma G F Smith
Brit M J 1926 1 528

Acute appendicitis incarcerated in a noht inguinal hernia P B SALATICH Am J Ohst & Gynec 1926

XI 417

Operative treatment of the internal abdominal ring in inguinal hernia simultaneous removal of the appendix D B PERIFER and C M SHYTH JR Surg Clin N Am 1926 Vi 123.

Re enforcement of the posterior parieties of the inguinal canal A Fusari Arch ital dichir 1925 tw, 671
Absence of the external gential organs and external

Pentonitis R Choisy Gynec et obst 1936 xm 177
Pentonitis and ileus L SCHOENBAUEA Deutsche

Ztschr f Chir 1925 cvcm 295
A case of pentonius from traumatic perforation A
YODICE Semana méd 1926 xxviii 300

YODICE Semana med 1920 xxus 300
Gonococcal pentonits complicating gonorrheal vulvo
vagnatis M Gleich J Am M Ass 1936 exxvi 748
Primary pneumococcus pentonits R A Leonasoo

Ann Surg 1926 Ivenu 411
Pneumococcus pentonitis G Wolfsonty Med Klin
1925 XXI 1638

Tuherculous pentonitis with cachera cured by one exposure to heliotherapy P F ARMAND DELILLE Bull et mem Soc med d hop de Par 1926 xln 311

Fleeting pentonitis subsiding spontaneously secondary

to puncture in ascites A Lexicare and J Delbreit Bull et mém Soc méd d hôp de Par 1926 du 300 Acute peritonitis in the course of cirrhosis of the liver with ascites M Garaier Bull et mém Soc méd d

hop de Par 1926 xln 348
Surgical treatment of diffuse infectious peritoritis
H Wilders Med Klin 1925 xx 1673
The diagnosis of spontaneous intraperitorical harmor

rhage L Von Mayersbach Wien med Wehnschr 1925 Itav 2597 Yray examination and treatment in a case of a psem

mous pentoneal papilloma C I BAASTRUF and E NIEL SEN Acta radiol 1925 iv 603

The rôle of the mesentery in vi ceral disorders

H T
GRAY Laucet 1926 cer 381

[17]

Retractile mesenteritis R Mosri Riforma med

A saccular cyst containing free omentum P Bonver Lyon chr 1926 xxii 108 A mesenteric cyst in a child enucleation recovery P Matrieu Bull et mém Soc nat de chir 1926 lii

#### Gastro Intestinal Tract

164

Some diagnostic points of disorders of the alimentary tract E L Heintz and R G Johnson Illinois M J 1926 xlix 231

New viewpoints on infection of the digestive tract G Sampierro Riforms med 1926 xli 126

Two cases of transdiaphragmatic hernia of the stomach Pérard and Roux Berger Bull et mém Soc nat de chir 1926 lii 37 The clinical value of functional examination of the stom ach by the colorimetric method A Bergman Semana med 1926 xxxiii 237

Examination of the gastric secretion in normal men E Dail IVERSEN Lyon clut 1926 vun 14 Vanations in the results of gastric analysis R S HUBBARD Clifton M Bull Clifton Springs N York

The response of the normal human stomach to vanous standard foods and a summary P B HAWK M E REBERGER AM J M Sc 1976 clxn 359.

Congenital hypertrophic pyloric stenosis Sir W Tay Loa Irish J M Sc 1926 p 128

Intubation with Einhorn's tube in gastroduodenal pathology F Charact J L Lapevre and I Lauraty

Presse med Par 1926 vesuv 147
Unwarranted surgery in achylia gastrica B W Fov

The symptoms and diagnosis of infectious gastrointestinal ulcerations P ESCUDERO Clin y lab 1926

XII 112
Gastro intestinal infection its roentgen manifestations
C Eastmond But J Radiol 1026 xxx1 03

Roentgen diagnosis of syphilis of the stomach La T LeWath Radiology 1936 vi 138 [17] A burn of the stomach from the ingestation of hydro chlore acid Peaked and Roly Berger Bull et mem

Soc nat dechir 1926 hi 35
Gastroptosis associated with a gap in the gastrocolic
omentum D Giordavo Riforma med 1926 xlu 217
Gastric and duodenal ulcer J A Mattisov California

& West Med 1926 xxiv 342

The etiology of gastne and duodenal ulceration K W

MONSARRAT But M J 1926 1 521
Acute ulcers of the stomach and duodenum L Agore
An Inst Mod de clin mid 1925 11 90
A case of ulcer of the pylorus in a 22 months-old child

as a result of poisoning with lead water R Stone.

Zentralbl f Chir 1925 in 2644

Ulcer therapy as tried on niche ulcers R Lenk

Strahlentherapie 1935 xx 103
Acute perforation of a gastric ulcer B R Bettran.
Surg Clin N Am 1936 vi 270
Gastroyeunal ulcer D B Presirer and C M Savyra
Ja Surg Clin N Am 1936 vi 221

Ja Surg Clin N Am 1926 vi 221

A few cardinal points concerning peptic ulcer M E

BLAHD Am J Surg 1926 xl 54

High ulcer of the lesser curvature of the stomach
F S MATHEWS Ann Surg 1926 lexum 436

The roentgenological diagnosis of peptic ulcer R D
CAMMAN Texas State J M 1926 vm 599 [18]
The healing of the gastric ulcer in man H D CAYLOR

Ann Surg 1926 lavon 350

The process of regeneration of the gastric muco a in relation to penartenal sympathectomy C Di Giota Ann ital di chir 1926 v 169

Questions involved in operative procedures in cases of

gastric and duodenal ulcers A Schachner Ann Sur

Gastric operations under local aniesthesia O Orth Zentralbl i Chir 1925 ln 2701 The surgical treatment of peptic ulcer T W RANKIN

Kentucky M J 1926 vm 152
The technique and results of the operative treatment

of gastric and duodenal ulcer H Sixov Berl Klimk

1925 xxxli 1

The surgical treatment of gastric and duodenal ulcer

with particular reference to late results H FINSTERER Klin Mchascht 1025 tv 2017

Critical consideration of gastro-enterostomy A Tierny Paris chir 1926, xviii, 9

Button anastomosis in gastro-intestinal surgers PAUCHET Riforma med 1926 this 103

Perforation of gastric ulcer after gastro-enterostomy

BONNET and CROIZAT Lyon chir, 1926 txiii 100 La degastro entérostomization V Paucher Irish J

M Sc, 1926, p 124

The surgery of gastrocolic fitula following gastro-enterostomy R E Passaa Rev de cirug Buenos Aires, 1026 v 43

Partial gastrectomy its indications, prophylaris and technique J S Horsley J Am M Ass 1926 lexxvi [19]

The effects of subtotal gastrectomy on secretion S A PORTIS and B PORTIS I Am M Ass. 1026 IXXXVI

A method of partial gastrectomy with telescopic anastomosis W W BARCOCK, Surg, Gynec & Obst

1026 xlu 403

[19] Gastrectomy for ulcer of the lesser curvature HUGUIER Bull et mem Soc d' chirurgiens de Par

1926 XVIII 35 Resection of the cardia H Wodsack Beitr z Llin

Chir 1925 CXXXIV, 584

Late results of gastric resection in carcinoma of the stomach H HARTMANN Presse med, Par, 19 6 EXXIV

Some reasons for poor results following gastro-intestinal surgery R 5 Boles Am J M Sc 1926 clx11 369
Frequency of cancerous degeneration in gastric electrons J G CAMPO Siglo med 10 6 lxxii 193

The report of a case of carcinoma of the stomach in a man of 22 years H H ARETZLER Northwest Med.

1026, XXV 146 Some complications due to intestinal worms P DEL

Voie Arch med belges 19 6, lxxix 9 Chronic hepato intestinal stasis S Lembo Radiochir

chir dell ernia Napoli 1926 vviii 47

The treatment of certain cases of intestinal obstruction with belladonna B D PANDE Indian M Gaz 1026 111 121

Intestinal tuberculosis F L JENNINGS and E FENGER

Minnesota Med 1026 ix 105

Experimental passage of the oocysts of fish coccidia through the human intestine J G Inousos and A ROBERTSON Brit M J, 19 6 1 4 0

Fatal invaginations in children J M Puente and MATHE Semana med, 1926 exxus 571 Chronic intussusception R C DUN Brit M J 1926

Intussusception in children and an operation to replace resection in late cases G H BUNCH J South Carolina M Ass 1926 xx11 61

An obscure case of acute intestinal obstruction due to the presence in the mesentery of the small intestine of a

fibrous polyp undergoing calcareous degeneration M T
SULLY V. Canadian M Ass J, 1926 vvi 297 The diagnosis and treatment of obstruction of the small

intestine in adults J Mckevry Canadian M Ass J 1926, XV1 260

Obstruction of the small intestine by gall stones C BENNETT But M J 1926 1, 563

Postoperative paralytic ileus Cambresier Arch méd belges 1926 lxxiv, 1

Hypertonic saline solution in adynamic ileus J W Poss Canadian M Ass J 19 6, xvi 24x [19] Biliary ileus particularly the type with spontaneous recovery A GUILLEMIN Arch franco belges de chir 1925 XXVIII, 953

The ententis of 1925 J ZAHORSKY J Missouri State M Ass 1926, xxiii, 104 A perforating ulcer of the small intestine of undetermined

onem with a carcinoma of the appendix F Papix I de med de Bordeaux 1026, cm 146

A ca e of periduodenitis R Novaro and A. Galíndez An Inst Mod de clín méd, 1925, 1x 271

Penduoderutis of appendicular on an A Gui Rev de med y cirug de la Habana 1926 xxxi, 125 The en\_vmic activity of the duodenal contents following

the ingestion of pancreatin A H AARON J V WADS WORTH, and H C SCHNEMER Arch Int Med 1926 XXXVII 408

Duodenal feeding A TROSSARELLI Policlin, Rome 1926 xxui sez prat, 36, The duodenal tube in the postoperative treatment of

gastro enterostomy W Meyer Med I & Rec [20] CXXIII 304

Functional stenosis of the duodenum E Terris Presse méd Par, 19 6 xxxiv 186

Duodenopyloric occlusion enormous gastric dilatation death in seven hours A SCHWARTZ Bull et mem Soc. nat de chir 1026 lu 162

Duodenal giardiasis M R Castex and J C GALAN Bull et mem Soc med d hop de Par, 1926 xlu 385 Duodenal ulcer with non rotation of the colon diagnosed clinically as gall bladder disease E J KLOPP Surg Clin .

Am 19 6 vi 184 Duodenal ulcer with diverticulum L B DICKEY

Am M Ass ro 6 lyxxvi 815 Acute perforation of a duodenal ulcer B R BELTRAN

Surg Clin N Am 19 6 v1 268 Duodenal ulcers should one resect or perform an entero anastomosis? V PALCHET and LUQUET

mém Soc d'chirurgiens de Par 1926 vviii 40 New viewpoints in the management of duodenal and high lying small intestinal fistulæ P ARREYS Zentralhl

f Chur 19 5 lu \*655 Pathogenesis of secondary jejunal ulcer Policin Rome 1926 xxxiii sez chir, 134

Postoperative jejunal ulcer A M Dochlorri Polichin Rome 1926 YXXIII, sez chir 82

The pathogenesis of secondary jejunal ulcer S Gussio Policin Rome 1026 xxviii sez chir 87

Two cases of perforated jejunal ulcer A T ASHCROFT Bnt M J 1926 1, 528 Retro-incarceration of the ileum A ROSENFELD Acta

chirurg Scand 1926 hv 439

Meckel's diverticulum with the report of a case C W WARREN Chiton M Bull , Chiton Springs N York 1026

TIL 28 The pathology of Meckel's diverticula E FRONTICELLI

Policin Kome 1926 exxii, sez prat 7,
Hypertrophic ileocacal tuberculosis L B Zamora and

L GLINDEZ An Inst Mod de clin med , 19 , 18 167 Diverticulitis and its surgical treatment J P Lock HART MUMMERY Lancet 19 6 ccv 437

[20] Multiple polyposis of the colon conservative treatment a case report D C Mckenney Am J Surb 1926 xl

Simple tumors of the large intestine and their relation to cancer C Dukes Proc Roy Soc Med Lond 10 6 xxx Sect Surg, 8

Colonic polyposis with engrafted malignancy R C Coffee Ann Surg 1926 lexini 364 [20] Extenonization of the colon A Schwartz Bull et

mém Soc nat de chir 1926 lu 2

Hartmann's operation for cancer of the large bowel PAUCHET and LUQUET Bull et mém Soc d chirurgiens de Par 1926 xviii 41

and execum operation recovery W Van Hook Boston
M & S J 1926 even 534
Carenoma of the right segment of the colon C H

typhoid H F Graham Surg Gynec & Obst 1925
thi 351
Tuberculosis of the execum E W Peterson Ann

Surg 1926 lyxxiii 433

70

The floating appendix C L G CRAPMAN Brit M J 1926 1 4,6 Occlusion of the appendix P DECKER Rev med de la

Congenital diverticula of the appendix F Von Fáxxiss
Zentralbl f Chir 1925 lin 2647

Bactenological findings in the mesenteriolum in the presence of appendicitis S Rubaschow Zentralbl f

presence of appendicates S Rubaschow Zentralbi f
Chir 19 5 lis 2695
Uterinecontracture accompanying pentoneal syndromes

particularly appendiciti Lemeland and Risactier Bull Soc dobst et de gynée de Par 1926 vo 29

The mortality in important appendid issues e necessity

The mortality in important surgical disease e pecually appendictis. A M Willis Surg Gynec & Obst. 1916 (14) 318

Appendictis on the l ft side in two cases of failure of

rotation of the colon J Isareta Rea de cirug Buenos

Ares 1926 v 35
A case of appendicitis with complications G H
JENNINS Hilhne man Month 1926 ht 157
Appendical abscess in a cityal hernia \(^1\) Gutterrez

Rev de cirig Buenos ure 1920 v 45
Appendicitis in children J H Jorsov Sun, Chin N

Am 1926 vi 129
The question of chronic appendictis F Eureich Arch f Verdauun, skr 19 5 vvvi 114
Appendectomy 5 Leuso Kadochir chir dell einiz

Appendectomy 5 Leuso Radiochir chir dell emiz Napoli 1926 xviii 30 When should operation be performed in appendiciti?

When should operation be performed in appendictit?
G CRIELLO Radio hir thir dell ernia Napoli 19 6
will 32
St tematic intervention in acute appendictits. G Gucci

Policin Rome 10 6 xxuii sez prat 298

Fypeninces in the treatment of appendicuti P Clair
MONT and M Meyer Acta chirur, Scand 1926 lx

55 Curiou evolution of a retrocarcal appendicular phleg mon J G Ruiz Semana méd 1926 vvvui 625 Gangereo of the transverse colon for t report of a cured case A DZIAOSWYSKI Zentralbl f Chir 1925 lu

A large tumor of the sigmoid me ocolon simulating ectopic pr gnancy. Guranor and Burw. Buff. Soc dobt, et discount of the sigmoid me ocolon simulating ectopic products of the sigmoid me ocolon simulating dobt.

dobst et de gynéc de Par 1926 vv 35 A foreign body in the rectum R J Curat and V J Lasula bemana méd 1926 vviu 213 Prolapse of the rectum J W Aprov Jr Teras State

J M 1926 vt 660
Proctitis and proctocohtis C J Daueca Med Times

1926 Iv 58
Carcinoma of the rectum W. E. Miles R. C. B. Math.
SELL and Sir W. Taylor, Brit. M. J. 1926 1 426

A case of carcinoma of the rectum with particular reference to cellular structure C Dr Giora Policim Rome 1926 txun sez chir 129

The technique of extirpation of the carcinomatous rection by the abdominoperineal method with sacrifice of the phincter A SCHWARTZ Radiochar chir deli ernia Napoli 1926 viti 3

A flatulence catheter for use after rectal operations
J F Monrague Am J Surg 1926 to 62
The injection treatment of internal hamorrhoid
W H PRICE Clin Med 1926 XXVIII 160

Fi sure of the anus and its freatment F PELS LEUSDEN Med Klin 1923 vo 1599

The radical treatment of high trans sphineteric or super sphineteric fistulæ of the anus R Boyne in Paris chir 1926 vint 25

# Liver Gall Bladder Pancreas and Spicen

Caz 1926 1 166
Testing of liver function detoxication by the liver

H VESEL and C P SHERWIY Arch Int Med 1373
retru 25, [21]
Tests for In er function N M SMITH South M & S

1916 lyxxym 1 6
Severe icterus with colon bacillus septicæmia simulstian
an icterohæmorrhagne spirochætosis E May and R
Boulin Bull et mén Soc méd d höp de Par 19 6 alu

324
A case of hepato plenomegaly of syphilitic origin,
P Giacardia J de med de Bordeaux 1926 cm 149
The pathogenesis of hepatic colic M Curray and

I Paret Press m'd Par 1926 von 1,7
Intrahepatic chole thiasis E S Jupp and V G Bur
DEN Surg Gynec & Obst 1926 xlu 322

Intrahepatic calcifications P A MAISSA Rev Soc argent de radio y electrol 1925 1 47 Two intere ting cases of liver abscess J M Khay

Indian VI Gas 1926 lu 124
II daud decase of the liver R. Novaro An Inst.
Mod de clin med 1925 iv 70

Mod de clin med 1925 is 70

An unusual form of amorbic abs ess of the liver H J

D Mairo and J O González An Inst Mod de clin
méd 1925 is 270

Americ abscess of the liver with rupture in the inferior sena casa. Ann Surg. 1926 leveni 444. Ciribosis with a cites followed by enterococcic pleuro-

entinosis with a cites followed by enterococcic picuropentonitis Dumitresco-Mante and R. Olintsco. Bull
et mem Soc med d hop de Par 1926 thi 214

Massive cancer of the liver in a patient operated upon

seven month before for an adenocarcinoma of the uterine certic \( \) J PALLOVSKY Semana med 1926 xxvii 309

A sign of adhesion in the infeshepatic area \( R \) Notabo

A sign of adhesion in the infrahepatic area R AOLARC and H B Zolezzi. An Inst Mod de clin med 1923 17

Double gall bladder ca e report B II \1CHOLS
Radiology 1926 vs 25;
The action of certain neurovegetative excitants on the

contraction of the gall bladder in man Cutray Lebon and Cutregare Bull et mem Soc med d hop de Par 1926 the 193 Studies on the mode of the bile outflow I \ 1 new

Studies on the mode of the bile outflow II A study of the execuation of the gall bladder by a new method hoaden Nakishtan Acta scholar med unit imp knoto 1945 ni 319

A case of spontaneous rupture of the gall bladder C BERTONE Ruforma med 1926 vlm 32 A case of perforation of the gall bladder J M MADINA

VEITIA Arch de med cirug y especial 10 6 vii 385.

The diagnosis of disease of the gall bladder T Z Caso.

South M J 1926 xiv 176

The Meltzer Lyon test experimental studies Frisser Bull et mem Soc med d bop de Par, 19 6, xl11 27

Some observations and conclusions based upon 5 000 non surgical drainages of the biliary tract G M NILES

J South Carolina M Ass 1926 vvii, 64
The influence of magnesium sulphate on the expulsion of bile from the gall bladder W H GANTT and G VON VOLBORTH I Lab & Clin Med 1926 31 542

Gall bladder visualization by the administration of radio-opaque substances N B NEWCOMER E NEW COMER and C A CONYERS Colorado Med , 1926, xxiii

Roentgenography of the gall bladder rendered visible with sodium salt of tetra bromphenolphthalein M Roch and S KATZENELBOGEN Rev méd de la Suisse Rom 10 6, thr. 215

Cholecystography F W O BRIEN Boston M & S J

1026 CYCIV 522

Cholecystography H M RICHTER J Am M Ass

rg26, lxxvi 937 [22]
The effect of liver damage on cholecystography in dogs by the use of sodium tetra iodophenolphthalein FRIED and L R WHITAKER Arch Int Med 1926

Cholecystography by the oral method L LEVYN and A II AARON Radiology, ro26 vz 204 Simultaneous cholecystography and tests of hepatic and renal functions by a single new substance sodium phenol tetra iodophthalein preliminary report E A GRAHAM W H COLE, G H COPHER and S MOORE J Am M 1221

Ass 1926 lxxxvi 467 Gall bladder stasis in pregnancy \ Hoffmann klin

Wchnschr 1925 1V, 2008

A case of torsion of the gall bladder acute hydrops S MARINACCI Policlin Rome 19 6 xvun sez prat,

Cholecystitis and appendicitis W W BABCOCK Surg Chn N Am 19 6 vi, o

A case of empyema of the sall bladder M BEHREND Surg Clin N Am 1926 vi 3 Cholelithiasis chronic salpingo cophoritis with adherent abdominal scars W W BABCOCK Surg Chn N Am,

Cholelithiasis—chronic pancreatitis J D ELLIOTT and

W M Sylvis Surg Clin N Am 1926 vi 170 Suppurating calculous cholecystitis with an appendicular

syndrome H J D AMATO An Inst Mod de clin méd 19 5 1x 300 The clinical value of non surgical drainage as a treat

ment for gall stone disease Iwao Marsuo Acta scholae med univ imp Kioto 19 5 vii 597

The surgical indications of inflammatory diseases of the

gall bladder A P HEINECK Chicago M Rec 1926 thun 6s

Complete cholecystostomy versus cholecystectomy in cases of empyema of the gall bladder E D MARIN

South M J , 1926 x1x, 198 Unusual hile duct visualization by roentgenograms of

barrum meal report of a case E HABBE and L A SMITH

J Am M Ass 1926 lvvvi, 476 Do bile pigments appear in the urine after injections of novoprotein in the presence of disease of the bile passages? H M HIVRICHSEN Deutsche med Wichnschr 1925, h

Inflammatory and cicatricial strictures of the principal bile passages H Delagéniere Arch franco belges de chir, 1925 YXVIII 946

A case of obstruction of the common duct M BEHREND

Surg Clin N Am , 1926, vi 235

Internal drainage of the common bile duct J GATEL

LIER Surg Gynec & Obst , 1926 thi 546
Ova in gall tract drainage R S Preston Virginia M

Month 1926, ln 769

Porotic malacia after biliary fistulæ H DIETERICH Bestr z klin Chir, 1925 CYXXIV 530 Local anæsthesia and surgery of the bile passages

A GUTTERREZ Arch franco belges de chir, ro 5 xxviii

The value of a starch todine reaction as a test of pan creatic function G M PIERSOL H L BOCKUS and H SHAY Arch Int Med ro26 xxxv11 43r

Acute hæmorrhagic pancreatitis report of an early case recovery following resection E BUTLER and G D DEL

PEAT Surg, Gynec & Obst, 1926 xln 3/9
Diabetes as sequela to acute pancreatitis J P S DUNN S VATCHER, and A S WOODWARK Lancet 1926, CCX,

Round celled sarcoma of the p nereas in an infant A DEANE Brit M J, 1926, 1 476
The influence of the spleen on protein metabolism

S Marino Policlin Rome 1926 varin, sez med 158 The spleen a pathological study and review H L FROSCH Med Times to 6 liv 62

Spontaneous rupture of the spleen and induced malaria E TROEMNER and H BALTZER Klin Wchnschr, 1925

11 2150

Two cases of splenic anamia of probable spirochatic on, in M RAYNAUD A NANTA and A LACROIX Bull et mém Soc méd d hôp de Par 1926, xlu, 496

Gaucher's disease with the report of a case showing bone disintegration and joint involvement E H CUSHING and

A P STOUT Arch Surg ro26 xii, 539 Splenic anamua of young children treated by splenec tomy H T Asibs and A H Southam Brit M J 1926

Specimens from a case of Banti s disea e D PATERSON Proc Roy Soc Med Lond, 1920, TIT Sect Study Dis Child, 39

Splenectomy in certain types of anemia with a case report A STREET New Orleans M & S J ro26 lxxvin

### Miscellaneous

Chronic abdominal pain in children K U Toverup Brit J Child Dis 1926, xxiii 2 Retropentoneal hernia a case with complications

Retropertunean nerma a case with compileations G G EITEL J Lancet 1926 xlv 134\*
Right sided enteroptosis alias chrome appendicitis H C R DARLING Med J Australia 1926 I 3 4 4
Eventration of the diaphtagm M LOREIT Ann 1tal

dichir 1926 v. 83

Congenital diaphragmatic hernia with a report of seven cases with autopsies A S UNGER and M D SPEISER Am J Roentgenol 1926 vv 135 [23] Right diaphragmatic hernia SANTY BLANC PERDUCET [23]

and Pure Lyon chir, 1926, txiii 106
A case of diaphragmatic eventration operated upon

SANTY Lyon chir 1926 xxiii 10

A case of persistent hiccough treated successfully by injections of novocain into the phrenic nerve D M GHOSE Indian M Gaz 1926 led 124

Note upon a phrenic laryngeal, nasal and enteric syndrome due to the presence of intestinal tricocephalus G Leo Bull et mem 50c d chirurgiens de Par 1926

**TVIII 16** Roentgenological examination of a subphrenic cyst

containing pus and air by the injection of lipiddol M R CASTEX N ROMANO and H GONZALEZ Bull et mem Soc mêd d hôp de Par 1926 vlii 22

The prophylaus and treatment of cancer of the vulva I C AHUWADA Semana méd 1926 xxxiii 304 Radiosurgery in cancer of the vulva DELPORTE and

CAHEN Gynécologie 19 6 TTV 89

A septate vagina with a double utenne cervit G Ros SARO Chn ostet 1926 txviii 84

A case of infected rudimentary septate vagina in con junction with dupler uterus E Jerrot Acta obst y gynec Scand 1925 IV 191

The recognition of inorganic phosphoric acid in the secretion of the human vagina II Rossenbeck Zentralbi

f Gynaek 1025 xlix 2641

The psychogenesis of leucorrheea A MAYER Wien klin Wchnschr 1925 vxxviii 1106 The virulence test of bacteria in the vaginal secretion

the control and the analysis of the virulence test through its employment in affections of animals Skayas Acta obst et gynee Scand 1925 IV 1

The treatment of granular vaginitis FORGET URION Bull Soc dobst et de gynée de Par 1926 vv 127 Coalescence of the varinal walls following the prolonged wearing of a pessary Forger Untov Bull Soc dobst

et de gynéc de Pat 1926 XV 127

## Miscellaneous

Stenlity operations A Mayer Muenchen med Wehnschr 192, lxx11 1767

The anaphylactic theory of men trustion H Vicves Presse med Par 19 6 xxxii 119 A ca e of early menstruation R A GRILLO Deutsche

med Wchnschr 1925 h 18,1 Indications for psychotherapy in gynecology G Von Wolff Zentralbl f Gynaek 1923 the 2612

The psychic disorders of menstruation P Boxierers

Internat J Med & Surg 1926 xxux 97
The treatment of so called essential dysmenorrhora by elon-ation of the hyponastric nerves at the base of the broad ligament and at the sides of the rectum \ IOLET Cynecologie 1026 TXV 102

Symmetrical dysmenorrhotal necrosis J TRAGANT Rev med d Barcelona 1925 11 538 The treatment of the climacteric W NUSSBAUM

Deutsche med Wehnschr 1925 h 1825 The use of cardiotonin in heart disease during the climacteric W FREESE Med Klin 1925 xxi 1697

Gynecological growth studies A GREIL Zentralbi f Gynack 1925 xlix 2505 Adenomyomata and ectopic endometrial growths their

present status R W TE LINDE Northwest Med 1926 XXV 123

Hydatid pelvic cysts Petriois Lyon chir 1026 xxiii The sedimentation test in pelvic diseases of the female H SCHMITZ and H SCHMITZ Am J Obst & Gynec 19 6

21 333
Pelvic infections—especially salpingitis T J Strong I Indiana State M Ass 1926 xix 108

Protein therapy for pelvic infection J G CLARK and T H LLEWELLY Surg Clin N Am 1926 vi 122 Milk injections for pelvic infections in women G Gellhorn New Orleans M & S J 1916 lexvii 557 Conservative treatment of genito abdominal tuberculosis in women E Tovere Gynec et obst 1926 toll 203

The clinical significance of tuberculosis of the female genitalia O Pavaon Extrapulmonale Tuberk 1915 Penanal ulcerating granuloma A A Fernández

Semana méd 1926 ATTIL 383 Endo urethral and endovaginal diathermy its them pentic value Souzas Gynécologie 1026 xxv 65 rays and radium in gynecological therapeutics V F

DE COURMELLES Clin V lab 1026 to 120 Exact dosage in gynecological roentgen therapy T Neerr Zentralbl f Gynaek 1925 the 2513

The value of exploratory vaginal puncture in gynecology F CLAUSER Clin oster 1926 xxviii 32

Care of the gynecological patient including methods of follow up J G CLARE and R A Annagoton in Sung Clin N Am 1026 vt 104

# OBSTETRICS

# Pregnancy and Its Complications

The time of the first fruitful conception R Susaki Kinki Fujinkwa Gakkwai Zassi 1025 vin 5 The biological diagnosis of pregnancy I G Trivino Med Ibera 19 6 x 218 A new serum diagnosis of pregnancy G Viola Pleila

Clin oster 1926 xxviii 113

The use of the vaginal stethoscope in the early diagnosis of pregnancy F H Falls Am J Obst & Gynec 1926 xi 309 [29]
The process of development of the germ cells in man

S Konvo Arch f Gynaek 1925 cvvv 310 An example of abnormal migration of the ovum R SLIVINGLY Rev franc de gynéc et d'obst 1926 xxi

The diagnosis of single-ovum twins from an obstetrical and gynecological standpoint H W Siemens Arch f Gynaek, 1925 CKRV1 623 Umovular triplets two cases A Sasse Acta obst et

gynec Scand 1925 iv 79 The question upon the determination of the age of the

V RUBESR4 Zentralbl I Gynaek 1925 zhv fetus 671

The determination of the symmetrical points of the pelvis FERRÉ Arch de med cirug y especial 1916 VII 150 Further investigations concerning the basal metabolism

in pregnancy E KLAFTEN and L STECHER Aich ! Gynack rozs even 541 A critical analysis of 250 prenatal charts | S HEBERT

Am J Obst & Gynet 1926 m 387
Prenatal care J W News to South M J 2926 207

218

An abnormal case of tolerance of the gravid uterus for trauma M CHATON Gynécologie 1926 xxv 94 Post traumatic phlebitis in pregnancy GALCHERAND

Bult Soc d'obst et de gynéc de Par 19 6 xv 66 Shock in the pregnant and puerperal woman If BAILEY and W P Driscoll Am J Obst & Gynec 1926 21 The introduction of a catheter into the abdominal cavity

in attempted abortion J A RIEBEL and W H CLEVE LAND Clin Med 1926 EXXII 169 Therapeutic abortion P J I ujiula Siglo med 1916

The difficulties of therapeutic abortion FRUHINSHOLE Gynécologue 1925 txv 96

A comparative study on the morphology of the bacdlus melitensis and bacillus abortus G FAVILLI Sperimentale

10 2 | 1412 1041 A rapid method for isolation of the bacillus abortus from utenne evudate and diseased placenta J B NELSON

J Fyper Med 1926 vlm 331

Variations in carbon dioxide requirements among bovine strains of bacillus abortus T Smith J Exper Med 1926

Is bacterium abortus pathogenic for human beings? I F Huddleson J Am M Ass 1926 lyczy 943

Semipreventive vaccination in obstetrics Brault and ROCHARD Bull Soc d'obst et de gynée de Par 1926 Further data on the effect of vaccination against bovine

infectious abortion T Smith and R B Little J Exper

Med 1926 thii 327

Pregnancy with complications D H Bessesen J

Lancet 10 6 xlv1 1 6

Two cases of hydrammon with anencephaly EPARVIER and GAUCHER AND Bull Sou dobst et de gynec de Par 1926 VV 62

Three cases of fibroma prævia LE LORIER Bull Soc

d obst et de gynéc de Par 19 6, vv 116

Pregnancy with a dead and macerated fetus resulting in an error of diagnosis GUYOT PRINCETEAU and MAGNAN Bull Soc dobst et de gynéc de Par 1926 Tv 129

Pneumothorax and pregnancy C PAMPANINI Riv ital di ginec , 19 5 1v, 15

Tuberculosis and pregnancy J C LITZENBERG Minne

sota Med 19 6 17 129

Pulmonary tuberculosis and pregnancy C W BRIDG MAN and V NORWOOD Bull Johns Hopkins Hosp Balt

19 6 xxxxiii 83

The possibility of a favorable mechanical influence exerted by pregnancy on the course of pulmonary tuber culosis I ARISOT SIMONIN and VERMELIN Gynécologie 19 6, xxv 94

Casarean section in pregnancy complicated by pulmon ary tuberculosis E A SCHUMANN and F E KELLER

Surg Chn N Am 1920 v1 257 Cardiopathy and presnancy D A Roias Semana

med 1926 xxx111 446

Meades in pregnancy T Guiraudia Bull Soc dobst et de gynéc de Par 1926 VV, 79 Pernicious anæmia of pregnancy I Bazán Semana

méd 1026 vexili 261 Progressive pernicious anemia in the course of preg nancy Devraigne and Brum Bull Soc dobst et de

gynéc de Par 1926 tv 114 Paratyphoid in pregnancy S SCAGI IONE Riv ital di

ginec 1925, IV 71 Appendicitis in pregnancy MAORTÚA and GONZÁLEZ

DUARTE Arch de med, cirus, y especial 1926 vii The displacement of ions into the blood its relation to

kidney function in pregnancy D ADLERSBERG and F KAUDERS Ztschr f d ges exper Med 1925 vlvii The differential diagnosis between the kidney of preg

nancy and chronic nephritis in pregnancy and between eclampsia and true uramia T HEYNEMANN Zentralbi f Gynaek 1925 thr 290
A chinical study of nephritis in cases of pregnancy

R ROCKWOOD R D MUSSEY and N M KETTH Surg

Gynec & Obst 1926 dil 34

The reactions of Kronberger Russo Wiener and Fuh with particular reference to albuminum of pregnancy and renal function A SCONTRING Riv ital di ginec, 1926 11 335

Cylotropin in the treatment of pyelitis of pregnancy E Schwab Muenchen med Wohnschr, 19 5 lxxii

Necrosis of the corpus luteum of pregnancy D BRIV NAN and M COHEN Surg Gynec & Obst 1926, vlu 1301

Basal metabolism in the tovemias of pregnancy STANDER and C H PECKHAN Bull Johns Hopkins Hosp , Balt 19 6 xxxviii 227

The toxemias of pregnancy from the viewpoint of etiology E k Maclellan Canadian M Ass J 1926 XV1 202

Purely predominantly acidosic forms of the toxemia of pregnancy TURENNE Gynécologie, 1926 vvv 98

Interagglutination of maternal and fetal blood in the late tovernias of pregnancy W M ALLEN Bull Johns Hopkins Hosp Balt, 1926 vvviii 217 [31] The acctone body content of the blood in tovernias of

O BOKELMANN and A BOCK regnancy Klin Wchnschr 1925 IV 2158

The pathological comiting of pregnancy R P KELLA

Virginia M Month 1926 lin ,75
The treatment of intractable vomiting of pregnancy

HENROTAY Gynécologie, 19 6 xxv 97

A case of permicious comiting of pregnancy cured by the use of the duodenal tube in which death ensued later from myocarditis E L king Am J Obst & Gynec 1926 TI 418

The importance of renal lesions in eclampsia Γ Patri

Riv ital di ginec 1926 iv 20,

Two cases of eclampsia Delmas Coll de Carréra and Criston Bull Soc d'obst et de gynée de Par , 1026

Eclampsia with transitory paralysis Forger Urros Bull Soc dobst et de gynéc de Par 1926 vv 45 Magnesium sulphate in the treatment of eclampsia

A DE MORAES Ret de gynec e dobst 1926 vx, The rôle of cæsarean section in the treatment of eclamp S12 J C IRWIN California & West Med, 1926 xviv

Eclamptic crises co-incident with syphilitic infection

l'augere Bull Soc d'obst et de gynée de Par 1026 vv.

Syphilis diabetes and pregnancy Guérin Valurale Bull Soc d'obst et de gynéc de Par 1926 v. 80

A case of diabetes insipidus in pregnancy with polyuria and a probable tuberculous lesion of the posterior lobe of the bypophysis G Maranon Arch de med, cirug y especial 1026 vii 80

Preliminary note on certain forms of toxemia of prec nancy co existing with acquired or hereditary syphilis M RIVIÈRE Bull Soc d'obst et de gynéc de Par 1926

Pregnancy in a double uterus J C MacGOWN M J, 19 6 1 476

Twin pregnancy in a double uterus G Dujol Rev Iranç de gynéc et d'obst 1926 TX1, 127

The report of a second case of triple pregnancy diag nosed by roentgenograms S GENELL Gynéc et obst 1026 Till 41

Ectopic pregnancy E A SCHUMANN and I E Keller Surg Clin N Am 1926 vi 259 Collective review-the differential diagnosis of ectopic

pregnancy E M FROMMER Am J Obst & Gynec 1926 11 4 3

Full term extra uterine pregnancy with the report of three cases L A LEDoux Am J Obst & Gynec 1926

An unusual case of tubal pregnancy Rossier Gyné cologie 10 6 xxv 07

Tubal pregnancy almost at term A Manya Clin

ostet to26 stylu 127 A case of abdominal pregnancy BARTHELMY Bull Soc

d obst et de gynéc de Par 1026 TV 105 A fibroma of the posterior surface of the isthmus and pregnancy at term the tumor simulating by its form and size the fetal head D A Roras Rev med Lat Am

1026 11 810 Vesicular mole or twin pregnancy complicated by poly hydramnios and hydrorthesa G V Pecula Cha ostet 1026 33vm 86

The danger of malformation of the fetus in roentgen ray treatment during pregnancy E Ries Am J Obst & Gynec roz6 ti 36r

# Labor and Its Complications

Preparation of the external centalia for delivery with iodine alcohol a report of 100 cases so treated with the breteriological results B LANAFORD Am ] Obst & (31)

Gymec road to are

Induction of labor case reports R A JOHNSTON South M I 1026 x1x 215 A new contribution to the study of obstetrical anes

thesia with somnifene J L Wodow and A POULAIN Rev franc de gynée et d'obst 1026 vu 150 Rectal analgesia combined with ethylene oxygen in ob-

stetnes C E Write I Oklahoma State M Ass 1026 Studies of the effect of parcylen anasthesia on the duration and the loss of blood during the third stage of

labor E MALERER Zentralbi i Gynaek 1925 xlav Obstetrical anasthesia with narcylen given through the kreis inhaler J Mater and L Maueren Zentralbl f

Gynaek 1925 tha 2544 The respective indications for the high and low route for the partunent at term P DELMAS Gynec si obst

1026 IV 3 An unusual pre entation D I Matan Bot M I

1926 1 4 6 The diagnosis and management of persistent occiput posterior presentations F B Crate Med J Australia

1926 1 352 Sudden death in labor R HAUTECHAUD Bull Soc d obst et de gynée de Par 1926 av 131

A primipara of 30 years with a contracted pelvis un successful attempt at forceps extraction publications successful delivery. LE LORIER Bull Soc d'obst et de gynéc de Par 1926 vv 110

Two cases of severe dystocia due to uterme retrad obst et de gynéc de Par 1026 xv 68

Spontaneous delivery at term after resects Proura uterme cornu for interstitual pregnancy L fGynec 1926 Soc dobst et de gynée de Par 1926 xv

Difficulties in labor in so-called partia [29] the uterus and their management in c2 in cells in man 1291 pregnanci H LATZ Monateschr f Ge / 310 1925 lex 147 of the ovum R

On contraction and retraction rings dobst 1026 xxx Obst & Gynec 1026 x1 364 Retraction ring and difficult deli from an obstetrical

South M I 1026 x1x 212 STEMENS Arch f Dilation of the cervix uten by me balloon E L STONE Am J Obs

isse Acta obst et Remarks on the dilatation of th

tion of the age of the course of labor Manon Bull So Gynaek 1025 thr de Par re26 xv 83

Embryotomy of the living fetus I B Govefire Semana méd 1926 vynu 492

The treatment of placenta pravia based on a study of sog consecutive cases at the Boston Lying In Hospital S KELLOCC Am J Obst & Gynec 1026 xt 104

Inversion of the uterus F C HOLDEN Am I Obst & CVDCC TO 6 TO ATE Inversion of the uterus I II Noves Rhode Island

M J 1926 17 30 Complete inversion of the uterus T R Oistler Am. J Obst & Gynec 1926 x1 410

Conservative treatment of incomplete runture of the uterus C Pastpanini Riv ital di ginec 1926 iv

Atymical runtures of the uterus with particular refer ence to Hochnes sign II Hemier Monatsschr f Geburtsh u Gynaek 1925 Ixx 33

Runture of the uterus during fabor due to an unrecog nized cyst of the ovary DEVERIONE and BLUM Bull

Soc d'abst et de gynée de Par 1026 xv 27 Perincul tears and a method of avoiding them TENSEY Acta obst et gynec Scand 1025 15 120

Penneal tears in normal labor methods of preventing them the pain of spontaneous labor and its attenuation by medication L G GRET Semant med 1026 vxuu

Portes operation N PALACIOS COSTA Rev Asoc med areent 1026 vatix 72

The oblique oval pelvis of Naegelé expansan section M RIVIÈRE Bull Soc d'obst et de gynée de Par 1016

Casarean section followed by temporary exteriorization of the uterus 1 Guevior Bull Soc dobst et de gynéc de Par 1026 TV 40 Casarean section in a chondrodystrophic dwarf B

LUNDQUIST tota obst y gynec Scand 1925 IV 170 The partial symphysicctomy of Costa Blanco Prog de la chn Madrid 1926 xiv 1 p The method of Moron Gabastou in the treatment of complications of labor W Agreting Semana med

1926 CXXIII 353 The necessity of combining curettage and digital curet

tage in evacuation of the uterus in cases of placental retention DE ROUVILLE and MADON Bull Sor ال الجهام de gynée de Par 1026 m 4 122 mination of the symmetrical point

FERRÉ Arch de med cirug y especia ราม 490 "- r I urther investigations concerning the basal met in pregnancy 1 KLAFTEN and L STECHER

Gynaek 1925 extv1 541 A critical analysis of 250 prenatal charts J S I

Am J Obst & Gynec 1926 x1 387
Prenatal care J W NEWHIN South M J re 318

In abnormal case of tolerance of the gravid uti- 12: trauma M Cirvrov Gynécologie 1926 xvv 94-1-Post traumatic phlebitis in pregnancy Gatch Bull Soc d'obst et de gynée de Par 1926 xv 6

Shock in the pregnant and puerperal woman II and W P DRISCOLL Am J Obst & Gynec r 2-72-2 The introduction of a catheter into the abdominal -

in attempted abortion J A Rienzi and W H Ct.
LAND Clin Med 1926 voxin 169
Therapeutic abortion P J I Ujilla Siglo med

The difficulties of therapeutic abortion TRUH -Gynécologie rg 6 xxv 96

The conservative treatment of puerperal infections C J MILLER New Orleans M & S J, 1926, luxum 565

Blood transfusion in puerperal infections R E Mor.

TER Wisconsin M J, 1926 TXV 119
The treatment of puerperal infection by intra uterine injections of glycerine H J PHILLIPS Proc Roy Soc Med Lond 19 6, xiv Sect Obst & Gynzec 26 [33] The diagnosis and treatment of puerperal infection due

to the Fraenkel gas bacillus L Novernmerger Much chen med Wchnschi, 1925 Ixmi, 1671, 1735 Puerperal septicemia due to the pseudo diphtheria bacıllus Forger Urion Bull Soc d'obst et de gynéc

de Par , 1926, tv, 127

Post abortum infection, artentis of the lower limbs death Delfourn Bull Soc dobst et de gynéc de Par 19 6, xv 10

Puerperal mortality SIR E MACLESS Brit M J 19 6 1 460

#### Newborn

The treatment of asphytia neonatorum in the second grade M LITWAR Zentralbl f Gynaek 1925 zhv 2676

Intracardiac injections of adrenalin in apparent death of a newborn child GARIPUY and MERIEL Presse med Par, 1926 xxxiv, 189

A study of an epidemic of impetigo in newborn infants

L B DICKEY Arch Pediat 1926 vlm 145 The report of a case of hydrocephalus with numerous other malformations VALLOIS COLL DE CARRERA, and

CHAPTAL Bull Soc d'obst et de gynée de Par 10 6

Intracranial hamorrhage in the newborn E Davis Texas State J M 1026 VI 670 Hæmorrhage of the newborn, with special reference to

brain hamorrhage H O Kun and J A Garvin Ohio State M J, 1920 XXII 215

Intracranial hamorrhage of the newborn W E SIMPSON J South Carolina M Ass., 1926 EM 66

Phrenic nerve injury in the newborn E FRIEDM IN and R S CHAMBERLAIN J Am M Ass, 1926 loxvi, 934

Congenital diaphragmatic herma in a child born of a tuberculous mother ANDERODIAS Bull Soc dobst et de gynéc de Par, 1926, vv, 133

Oscillometry in a newborn infant P BALARD Rev franc de gynec et d'obst, 19 6 xv1 166

## Miscellaneous

The maternity and infancy act its administration in Montana H D Bonness Northwest Med 1926, xxx,

The doctor's responsibility to motherhood R M ADAMS

New Orleans M & S J 19 6 Ixvviii 569
Obstetrical notes G G Thornton Clin Med 1926 TTXIII 178

Obstetucal heresies at the Brooklyn Hospital W S SMITH Am J Obst & Gynec 1926 vi 324

The use of hypophyseal extract 'G Cuzzi Clin ostet 1026 XXVIII 141

The use of hypophyseal extract in obstetnes L RAZETTI Rev de med y cirug, Caracas 1926 17, 1

Maternal mortality and morbidity L McLEROY But

I 1926 1 471
Placental extracts F CLAUSER Riv ital di ginec 1026 IV 115

A malignant placentoma spontaneous perforation of the uterus subtotal hysterectomy immediate recurrence treated with the \ rays and radium recovery SIREPEY BBOC MONOO and RICHARD Cynécologie 1926 TTV, 85 O cillemetry in obstetrics P BALARD Rev franc de gynéc et d'obst 1026 vai 65

Maternal nursing J GARLAND Boston M & S J

10 6 CTCIV SIQ

# GENITO-URINARY SURGERY

## Adrenal, Kidney, and Ureter

Effects of insulin on the weight of the rabbit's suprarenal glands H S THATCHER J Exper Med, 19 6 thm 357 Compensatory bypertrophy of the adrenal cortex E M Machay and L L Machay J Exper Med, 10 6 thu

Two cases of hypernephroma with metastasis R CARUSI Polichin Rome 1926 xxxiii, sez prat 10

A kidney with secondary deposits following removal of the opposite kidney for hypernephroma J EVERINGE Proc Roy Soc Med , Lond 1926 vix Sect Urol 11 A new case of sudden death of suprarenal origin MARA

NON COMAS and VARA LOPEZ Arch de med cirug y especial 1926 vii 393

Adipose metamorphosis of the two suprarenal capsules with melanoderma M LOEPER and J OLLIVIER Bull et mem Soc med d hop de Par 19 6 xlii 312 Examination of the anti acidosic functions of the Lidney

A BONNET Presse med Par 1926 XXXIV 202 The value of functional examination of the kidney and

deciding upon the timeliness of intervention on the kidney C RAVASINI Policlin Rome 1926 txxiii sez prat 53 Congenital malformations of the kidneys and ureters E Brecher Verhandl d deutsch Gesellsch f Urol 1925 P 100

The pathology, diagnosis and treatment of horseshoe Lidney L Pisavi Arch ital di urol 1926 ii 356 Horseshoe Lidney-its diagnosis and conservative treat ment C H Lunowics Urol & Cutan Rev 19 6 xxx

The treatment of traumatic rupture of the kidney M B Wessov Ann Surg 1926 Ixxiii 246 [35]
Pyelography in diagnosis F E Fellder J R H
Torror and others Brit M J 19 6 1 575 [35]

The importance of pyclography in urological and differential abdominal diagnosis S J Stakoe Urol &

Cutan Rev 1926 XXX 147 Pyelography in renal diagnosis L HERMAN Ann

Surg 19 6 lxxx111 27 Pyclograms of an injury to the kidney T E HAMMOND Proc Roy Soc Med Lond 19 6 rts, Sect Urol, 13

A clinical lecture on diagnosis by pyelography WILLAN Brit M J 1926 i 400 [36] Experimental hydronephrosis arterial changes in the

progressive hydronephrosis of rabbits with complete ureter al obstruction F HIVMAN and D M Morisov Surg Gynec & Obst 1926 xl1, 209

The report of a case of hydronephrosis with intermit tent hæmatuna as an outstanding symptom H P W WHITE Proc Roy Soc Med Lond 1926 XIX Sect Urol 17

Two cases of hydronephrosis complicated by obstruction to the ureter by renal blood vessels. H. P. W. WHITE Proc. Roy Son Med. Lond. 1926, 212 Sect. Urol. 16 A specimen of congenital hydronephrosis A C SON Proc Roy Soc Med Lond 1926 x14 Sect Unof

An infected left calculous hydronephrosis m the right iliac fossa E BEER Ann Surg 1926 fxvxir 433
Traumatic uronephrosis C Conviole Lev med de

la Suisse Rom 1026 vlvi 82

78

Pyelovenous back flow the fate of phenolsulphonephtha lein m a normal renal pelvis with the ureter tred HINMAN and M Veckt J Urol 1926 xv 267 [36]
Pyelovenous back flow C F Bird and T S Moise 1361 Am M Ass 10 6 lxxxvi 661 1371

Renal sclerosis J R Govern An Inst Mod de cfin med to t it I2

Polycystic disease of the Lidneys-report of six cases J SCHWARTZ N York State J M 1926 xxv1 231 [37]
Solitary cysts of the Lidney E Sayrono Reforma med 1026 Thi 267

Renal sensis associated with manic depressive insanrty Renal sepsis associated with month of the Lidney R Brockion of the Lidney R Brockio

Polichin Rome 1926 vxuii ez prat 50
Pyelitis with special reference to diagnosis and treat
ment S Highshitty South M & S 1926 fyvxviii

Surgical intervention in medical kidney di eases G KOLISCHER and A E JONES Illinois M I 1026 the

Gonorrheeal infection of the kidney with the report of a case A KEMBLE J Urol 1976 to 289

Renal tuberculoss from the standpoint of the surgeon If WADE Edinburch M J 1926 vexili 108 Renal tuber ulo is clinical and experimental M

MEDIAR WISCORSIN M J 1016 XXV 50 1381 Clinical contribution on renal tuberculosis G Baocii Arch ital di chir 1925 xiv 593

Two dysembryoplastic tumors clinically called sarcoma of the kidney R Noal J F Martin and J Dechause

Lyon chir 1926 xxiii 30 A papilloma of the renal p lvis diagnosed by pyelography Sig J Thouson Walker Proc Roy Soc Med Lond 1916 ux Sect Urol 16

The diagnosis and differential diagnosis of kidney and ureteral stone K KENDEL Verhandl d deutsch Gesell sch f Urol 1923 P 94

A case of calculous pyonephrosis complinated by a traumatic urethroperineal fistula R LEVY DREYFUS and Marion J durol med et chir 1926 xx1 57
A kidney showing renal stone and hypernephroma S G

MACDOVALD Proc Roy Soc Med Lond, 1026 ure Sect Urol 14 Multiple stones in the left Lidney E J LLOPP Surg

Clin N Am rg26 vi r89 Calculus of the kidney and ureter I R KAUFMAN Hahneman Month 1026 lu 1 0

Calculus of the kidney and ureter-a chinical study of thirty four cases L R KAUFMIN J Med Soc N Jersey 1026 XXIII 124 kidney stones case report J S DERR Radiology

1026 VI 256 A calcified renal cyst T I KIRWIN I Urol 1026 vv

The indication of nephrostomy preliminary to uretero rectoneostomy F HIVMAN J Am M Ass 1926 lvaxvi

Remarks on ureteral reflux G PRAETORILS Zisebe f Uro! 1025 XIX 743

Double ureter without intercommunication of the pas sages Boeckel and FRINCK I durol med et chir 1026 533 188 Congenital dilatation of the ureters and renal pelvis A T HUBERTI Rev méd d Barcelona 1925 n 545

Cystic dilatatron of the useter removal of a uretence calculus per vaginam I Atkin Brit M J 1926 1 568
Stricture of the ureter C J Andrews Ariginia M Month 1926 lm 755 Ureteral stricture W B MARTIN Virginia M Month 1026 fui 7.8

A specimen exhibiting stricture of the ureter S C MACDONALD Proc Roy Soc Med Lond 1926 xix

Sect Urol 14 Ureteral calculus from the point of view of diagnosis and treatment E LEO Arch stal di urol 1926 ii 191

## Bladder Urethra and Penis

Constricture at the neck of the bladder M B Sacon ERS Med J & Rec 1926 CVIII 364 Stricture and displacement of the vesical neck I Taxer

I durol med et chir, 1926 xti 41 Colon bacilius cystitis in women G MARINESCO Gynec st obst 1926 IV 24

Rupture of the bladder in acute gonorrhora T E HAMMOND Proc Roy Sec Med Lond 19 6 xxx Sect Urol 12

Partial cystectomy for tuberculous yesico tubo-colonie fistula C BEER Ann Surg 1926 lxxun 430

Vesical bilharziasis in Somalia C VENERONI Riforma med to 6 th o

A case of briharziasis of the bladder A L DEAN JR Internat I Med & Surg 1016 xxxix 100 Stages in the formation of bladder diverticulum. D h Rose South M J 1926 YIX 206

Multiple diverticula of the urinary bladder with stones E BEER 1nn Surg 1926 laxxun 428 Dysuna in a bladder with farge diverticula L Ferris

Arch stal di urol 1926 il 347
Elusive ulcer of the bladder II L KRETSCHMER
J Am M Ass, 1926 IXXVI 739

A collection of thirty three vesical stones Sir T C Evans Proc Roy Soc Med Lond 1926 viv Seet Urol

Cystoscopy and roentgenography in vesical calculus M Necro Arch ital di urol 1926 ii 223 A case of vesical calculus with enlarged prostate in an

old man K RAM Indian M Gaz 1926 lts 127 A rare mishap in litholapa vy L Neuwelt Med J &

Rec 1926 CTTill 323 Cystogram of a growth of the bladder T E If AMMOND Proc Roy Soc Med Lond 1976 ux Sect Urol 13

Carcraoma of the bladder B A THOMAS J C BIRDSALL snd F G Harrison Surg Chn N Am 1976 vi 198
Total cystectomy for carcinoma of the bladder E Beer
Ann Surg 1926 fxxmi 427

Urethral mucosa and glands an anatomical and histo logical study E W Hirkson J Urol 1926 tv 293 [39] Traumatic rupture of the urethra \ C Torres Semana med 1926 vrun 527

A mucous membrane polyp in the female urethra a con tribution on the problem of epithelium heterotopia in the urethral mucous membrane II R Schmidt Arch I Gynaek tors evevi 602

Strangulation of the penis a report of a case produced by a case from bushing V VERMOOTEN J Uro! 19 6 vi

An unusual form of elephantiasis of the prepuce F ALLODI Sperimentale 1925 lixix 1003

## Genital Organs

Some considerations on prostatic metastases in staphy lococcæmia L STROMINGER Presse méd Par 19 6 XXIV

Staphylococcic pyzmia secondary to an abscess of the prostate J Martin and A LAVENANT J durol med et chir 1926 TY1, 186

Metastic prostatic abscess D Tapper Riforma med,

1926 thi 265

Involutionary changes in the prostate and female breast in relation to cancer development H OERTEL Canadian M Ass J 1926 TV1 37

Hypertrophy of the prostate B A THOMAS J C BIRDS ALL and F G HARRISON Surg Clin N Am 19 6

The handicapped surgical patient III Due to benign hypertrophy of the prostate W WALTERS Canadian M Ass I 1926 vvi 85

Radiotherapy of prostatic adenoma Legueu J d urol

med et chir 1026 XXI 170

The roentgen treatment of hypertrophy of the prostate C GUILBERT and R D GALILLARD Urol & Cutan Rev 1026 XXX 150

Prostatic obstruction G G REINLE California & West Med 19 6 xxiv, 324 Hæmostasis in suprapubic prostatectomy V C HUNT

Ann Surg 1926 lyxxiii 381 [41] Postoperative treatment of suprapubic prostatectomy D Tabber Riforma med 1926 dii 49

An operation for incontinence of urine following perineal

Drostatectomy L L KEYES Surg Gynec & Obst 1026 XIII 423 Libromatous reformation after prostatectomy THEVE

NOT Lyon chir 19 6, xxiii 85 Seminal resiculitis B A TROMAS J C BIRDSALL and

F G HARRISON Surg Clin N Am 1026 vs 106 Cancer of the left seminal vesicle with apparent integrity of the prostate THEVENOT I d urol med et chir 1926

Sterilization of the mentally unfit R A GIBBONS H

Cow and R Worth Lancet 1026 ccv 660 Ectopia of the testis CATHELIN Bull et mem Soc d

chirurgiens de Par 1026 vviii 4 Ectopia of the testis BARBARIA Bull et mem Soc d

chirurgiens de Par 1926 xviii 5 Malignant tumors of the testis in abdominal ectopia

L AUROUSSEAU J de chir 1926 xxvii 17 Orchidopers for bilateral ectopia with the result at

the end of fourteen years 1 HUGGIER Bull et mem Soc d chirurgiens de Par 19 6 villi 31 Paris chir 1926, XVIII 37

A diagno tic point in bacillary orchitis and epididymitis due to sporotrichosis Thévenard Bull et mêm Sou d chirurgiens de Par 1926 vill 20

A case of paludal orchitis and epididymitis A VALERIO

Arch brasil de med 1926 val 11

Orchitis and epididymitis due to a sporothrix Theve NARD Paris chir 1926 xviii 35

Aspecimen of cystic epididymitis F McG Loughnane Proc Roy Soc Med Lond 1026 vix Sect Urol 14 Tumors of the vas deferens of the tunica vaginalis and of the epididymis K FRITZLER Ztschr f urol Chur

1925 XVIII 271

Cystic lymphangioma of the spermatic cord A Rosev FELD Acta chirurg Scand 1926 lix 447

Gangrene of the scrotum E Giora Ann ital di chir, 1026, 1 30

## Miscellaneous

Some unnary complications and their management S H HARRIS Med J Australia 19 6 1 266

ray examinations in urology C HEUSER Semana med 1926 xxxIII, 368

Extravasation of urine G GREENBERG Med J & Rec 19 6 CXXIII 366

Churests M & Wylder Med J & Rec 1926 CXXIII

Transplantation of the gracilis muscle for incontinence

of urine C I DEMING I Am M Ass 1926 IVXXVI 8 2 Hæmaturia its interpretation D N EISENDRATH

J Am M Ass 10 6 lxxvv1 825 So called essential hæmaturia J Gottlieb Ztschr f

urol Chir 1925 vviii 237 Orthostatic hamoglobinuma, hemolytic icterus umnary amorbiasis emetine treatment recovery. N Fiessinger and G Parturier Bull et mem Soc med d hop de

Par 1926 xlu 153 Violent effort and inflammatory processes of the genitourinary organs A MASCIOTRA Semana med 10 6

XXXII 515 Helminthiasis and colibacilluna A LAVENANT Bull

et mém Soc d chirurgiens de Par , 1926 vviii 7 Helminthiasis and colibacilluria G Léo Bull et mém Soc d chirurmens de Par 1026 xviii 11

Genital and extragenital venereal chancres lymphatic complications R BERTOLOTY Med Ibera 1926 v, 241 The histopathology of gonorrhoga in children F RONGHESE Policlin Rome 1926 YXXIII sez med 110 The abortive treatment of acute gonorrhora by intra venous injections of plucose G ICHOR Presse med

Par 1020 TX 111 181 New studies of intravenous chemotherapy and gonococcus infections H Jausion and M Vaucel Presse med . Par

1926 TXXIV 193

A routine method of determining the complete cure of gonorthea in the male H M Young J Urol 10 6, xv.

Vaccines and proteins in the treatment of gonorrhoza and so-called venereal lesions BARRIO DE MEDINA

Ibera 1926 x 158 He viresorcinol in infection of the urinary tract results m sixty three cases D 1 Brown J Am M Ass 1026

1xxxv1 663 Applications of the bacteriophage of d Herelle in the

treatment of urmary infections R Dalsacr J durol méd et chir 1926 vxi 1 3

Verumontanitis as a cause of genito urinary neurasthenia D S Massono Rev Asoc med argent 1926 TXXIX 90 A review of urological surgery A J SCHOLL E S JUDD L D KEYSER C S FOULDS and J VERBRUGGE

Arch Surg 1926 xii 769 Necker's clinic in 1925 F Legueu J d'urol méd et chir 1926 XXI 5

Anæsthesia in genito urinary surgery J J Gazzolo Rev med I at Am 1926 vs 871

Conservatism in surgery of the uninary tract W C OUIVBY Internat J Med & Surg 19 6 xxxxx 9r [41]

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

#### Conditions of the Bones Joints Muscles Tendons Etc

Observations of a medical man in an orthopedic clinic F C HALL Boston M & S J 1926 ETCIV 432 Failures of growth their development and prevention II Maass 1025 Stuttgart Enke

The osteoblast and its part in osteogenesis A Policard Ars med 10 6 11 53 Multiple and polymorphic osteopathies in a pseudo-

acromegalic tabetic P HARVIER J RACHIT and J BLUM Bull et mem. Soc med d hop de Par 1026 dii 249 Bone changes in neurofibromatosis O FLIEGEL Deut

sche Zischr f Chir 1925 cvciii 359
Fibrogeodic osteitis J Chauveau Ann d'anat path 1026 111 43

Osteitis deformans (Paget's disease of bone ) R. E ROBERTS and M J COMEN Proc Roy Soc Med Lond 1926 Mr Sect Electro Therap 13 continue ossea as a manifestation of Paget's disease

P HAMBURGER and I W NACHLAS Arch Surg 1916 Acute osteomycliti R Grégoire Bull et mêm Soc

nat de chir 10 6 lu 7

Peculiarities in the growth of long bones following Osteomyelitis C L FARR Am J Surg 1926 xl 66
Osteomalacia in Kashmir K VAUGHAN Brit M J, 19 6 1 413

The importance of Bence Jones albumosuma in diagnosis S REYNOLDS Brit M J 1976 1 475

The similarity of the roentien findings in multiple myeloma and in sporotrichosis W ALTSCHUL Am J

Roentgenol 10 6 xv 274 Bone cysts report of cases J IRELAND Tilinois M J

217 this 217 The differential diagno is of joint diseases with some observations on their treatment L Malena Med Klin

1925 X 1 1578 Chronic non suppurative arthritis M J BREUER Nebraska State M J 1925 ti 111

Chronic deforming polyarthritis with tubercule bocille and positive inoculation from the fluid of the joint CARNOT and E TERRIS Bull et mem Soc med d hop de Par 1926 xlu 396

Relaxed and snapping joints R Lozano Rev med d Barcelona 1925 11 551 Roentgen ray examination of the joints of hemophiliaes

H P Doub and E C Davidson Radiology 1926 vi [43] Experimental studies on free joint bodies V BREZOVNIK

Casop lék cesk 1925 lviv 146, 1518 1431 Is it possible for an osteochondritic joint mouse to become rehealed into place? J C Lehmann Deutsche Zischr f Chir 1925 cvcu 88 [44]

The pathology of joint tuberculosis in its eather stages
DEF SMITH Arch Surg 1926 XII 740 [44]
What is known regarding ganglia II KUETTVER and E HERTEL Ergebn. d Chir u Orthop 1925 xvm 377 [41]

The experimental production of annular ligaments as an example of the influence of function upon the differentiation of connective tissue O V BATSON and M M ZINNINGER Bull Johns Hopkins Hosp Balt 1926 xvvvn 124 [45] Bands and accessory cavities of the shoulder joint

S SIMON Anat Anz 19 5 lv 64 Anatomical forms and concenital elevation of the scapula P MALLET GUY Rev d orthop 1020 xxxiii 111

Suppuration of the shoulder joint report of two cases B S BARNES J Am M Ass 1926 ltxxv1 686

A morphological study of cross sections of bones of the upper extremity Hiroxno Mivinoro Acta scholae med univ imp kieto 1925 VII 553

Syphilitic muscular atrophy of the upper limbs and of the shoulder girdle in a patient with an old fracture of the cervical spine P Lécuritie and J Weill Bull et mem Soc méd d hôp de lar 1926 xlu 349

A case of congenital absence of the elbow I STINCER

Rev de med yearing de la Habana 1926 vxx; 113 A carpus with one row of bones M L HEUREUV and A MOLCHET Bull et mem Soc nat de chir 1926 lu

40 A post traumatic spotted semilunar not cystic. Mou CHET and Picust Bull et mem Soc nat de chir 1026

ln 200 Lipoma of the palm of the hand AUVRAY Bull et mem Soc nat de chir 1926 lii 47

A grant cell tumor involving the phalanges W II Core

Ann Surg 1926 Ivxxiii 3 8
Trigger finger and stenosing tendovaginitis of the flevor tendons of the finger I LROH Arch f klin Chir 1925

[15] CTEXVI 240 On the development of spinal vertebræ as seen on

skingrams from late fetal life to the age of fourteen HANSON Acta radiol 1916 V 112 1461 Outlines of routine examinations of the back and cervical

spine P Lewis Illinois M I 1026 xlix 231 An anatomical note on a possible source of error in the Ray findings of the normal vertebral column A C [46! I REEDMAN Canadian M Ass J 1976 xvi 44 [46]
Congenital malformations of the spine E SMEESTERS

Arch franco belges de chir 1925 xxviii 973 A case of cervical rib causing unitateral brachiol neuritis

operation with amelioration of symptoms J N SEN Indian M Gaz rord tu ra6 The clinical and roentgenological signs of congenital

scolio is J Gourdon J de méd de Bordeaux 1926 cin Congenital asymmetry of the dorsal vertebræ and of

the ribs VAN HARLST Arch franco-belges de chir 1925 Pseudo dorsalization of the seventh cervical vertebra N M Moreyo and M Syndberg Semana med 19 6

XXXI 1 235 Spina bifida occulta of painful form Corre and ROLLAND

Lyon chir 1926 xxiii 8r Certain diseases and injuries of the spine in adults E W RYERSON South M J 1026 VIT 224

A new case of traumatic spond; litis of Kuemmell diagnosed roentgenologically F Basenciii Policlin Rome 1026 xxxii sez prat 330

A new case of Pott s disease (parrot beaks) A Basser Bull et mem Soc nat de chir 1926 lu 30

Neuritis of the lumbar plexus due to a suppurating sacrococcygeal teratoma autovaccine treatment removal recovery L De Garrano Ann ital di chir 1926 v r Vertebral cancer R Coste Presse med Par 1926

Systematic diagnosis in backache E T Wentworth J Bone & Joint Surg 1926 Vin 137 Fifteen cases of arthritis of the hip DUVERNAY and PARENT Lyon chir 1926 XVIII 128

Juvenile osteochondritis of the hip coxa plana pseudocovalgia J L Branco Clin y lab 1926 xii 124

Acetabular lesions in osteochondritis of the hip CHAS SARD Rev dorthop, 1925 XXXII, 517

The role of the tensor fascire femons in certain deformaties of the lower extremities C C Young I Bone & Joint Surg 1026 vm 171

Transmatic coxa vara W Colin Am I Roentgenol 1026 TV. 242

A bone abscess in the lower end of the femur in an adolescent C DUJARIER Bull et mém Soc nat de chir 1026 hi 100

The diagnosis and management of paralysis of the lower extremity with special reference to gluteal paralysis P H

KREUSCHER Illinois M J 19 6, thr, 229 Prosthetic correction of the limbs in vicious positions M OLIVERAS DEVESA Rey méd de Barcelona, 1926 m

A case of pyo arthrosis of the knee due to Ebert's

bacillus E Micros Bull et mêm Soc nat de chir 1026 ln 113 Mycosis in the region of the knee of patellar origin re

covery after several surgical interventions associated with sodide treatment V COMBIER, J MURARD and P LECENE Bull et mem Soc nat de chir 1026, lu 180

Arthropathy and symmetrical lipomatosis of the knees G MARANOV and E BOVILLA Arch de med cirus s

especial, 19 6 Vii 577
Tumors of joints (my vochondrosarcoma of the articular capsule of the Luce) FEDELI Chir d organi di movimen to, 1926, x, 200

Experiences with artificial limbs in workers on the farm

L HOFFMANN Aerztl Monatsschr 1025 p 321 The Schede Hahermann leg and indications for its use R. PUERCEHAUER Muenchen med Mchaschr 1025 rm, 1885

A cyst of the anterior portion of the leg probably of ar ticular origin C DUJABIER Bull et mem Soc nat de

chie roz6 lu rra A case of fissure of the tibia OUDARD Rev dorthop

1926, weni 137

On the etiology of congenital club foot C Bearse Boston M & S J 1026 even 394 The cause pathogenesis and management of billux

valgus R ScherB Schweiz med Webnschr 1925 lv

Hallus valgus in constitutional pathology E PAYR Zentralbl f Chir 1925 lu 2 89

## Surgery of the Bones Joints Muscles Tendons Etc.

A program of study of hone surgery K Leriche and A POLICARD Presse med, Par 19 6 XXIV 24
The prevention of deformity J H GALBRAITH

Atlantic M J, 1926, XXX 366

The treatment and correction of spinal deformity G DAVIS Atlantic M J 1926 TXIX 369 [48]

The correction of deformaties of the fower extrematies DEL P WILLARD Atlantic M J, 1926 XXIX 373 [48] The treatment of deformities of the upper extremity C You've Atlantic M J 1926 vix 375 [48] C C YOUNT Atlantic M J 1926 TXIX 375

The treatment of acute infectious osteomyelitis FLCHER Zentralbl f Chir 1925 lu 2589 The treatment of septic tuberculous arthritis Sir J

O COYOR Brit M J, 1926 1 528 The surgical treatment of osteo arthritis H PLATT Brit VI J 1026 1 4 3

Synovectomy in chronic infectious arthritis P P Swerr Am J Sur, 1926 xl 49 New viewpoints in arthroplasty J Hass Zentralhl f Chir 1925 hi 2702

The treatment of hone tumors L TAVERNIER Bull et

mem Soc nat de chir 1026 lii, 204 Restorative bone graft result sixteen years after onera

tion A HUGUIER Bull et mem Soc d chirurg ens de Par 1026 XVIII. 28

The results of kineplasty in our experience M B Ansart Rev de cirug Buenos Aires 1926 v. 1

Kineplastic amoutations arm himotor and a prosthe is G B ARANA Surg, Gynec & Obst 1926, dn 416

High kinematic amputation of the forcarm with a prosthetic apparatus MAUCLAIRE Bull et mem Soc nat de chur, 1926 lu 199

Double motors of the arms with Sauerbruch a prosthesis G B ARANA Rev de cirus Buenos Aires 1926, v 57 Lineplasty after Pellegrini in short forearm stumps M BASTOS ANSART Prog de la clin Madrid 1026, xiv.

Injuries of the hands and fingers A WITTEL Nederl tudschr v geneesk, 1925 lvr 94

Surgers of the flevor tendons of the hand I H GAR LOCK Am J Surg , 10 6 xl 68

A new operation for opponens paralysis of the thumb B W Howell Lancet, 1926 CCT 131

The treatment of spondylitis by the use of apparatus applied to the spinal column S C YUE Zentralhl f Chu 1025 lu ...06

A new scoliosis operation H PLAGEMANN Zentralbl f

Chir 10 5 hr 528 A new scohosis operation G Perthes Zentralhi f

Chir 1025 ln 2579 A bone transplant for scoliosis A B GILL Surg Clin N Am 19 6 vr, 155

Albee's operation for dorsolumbar Pott's disease after the failure of long prolonged orthopedic treatment M PATEL and J CREYSSEL Rev dorthop 19 6 TXXIII 1 3

The technique of operation and postoperative manage ment after Albee's operation for Pott's disease in adults L Bérard and J Creyssel Lyon chir 1926 x an r An end result study of arthrodesis of the sacro iliac joint

for arthritis-traumatic and non traumatic M N Surrii PETERSEN and W A ROGERS J Bone & Joint Surg , 1926 vm 118 Double osteotomy of the femurs for rhizomelic spondy

losis Peugniez Bull et mem Soc d chirurgiens de Par . 1026 XVIII 10 Fifty cases of tuberculous osteo arthritis-white swelling

of the knee and covalgia-which were cured by hone graft ing the patient remaining in hed only twenty five days C R LAVALLE Semana med 19 5 XXII 1209 [50] The treatment of tuberculous Loneitis and courtis C ROBERTSON LAVALLE Rev Asoc med argent, 10 6 TXXIV.

Late results of resections of the knee performed by Olher L BERARD and P SANTY Arch franco belges de

clur 1025 xxviu, 963

Parogoff a operation in severe traumatisms in tarsus and metatarsus V F Tato Siglo med 19 6 lxxiii 128 150 A modification of the technique of arthrodesis of the foot P GUILDAL Rev dorthop 1926, xxxiii 143

The surgical treatment of dangle foot R OLLEREY SHAW But M J 19 6 1 525

The hallux valgus operation excision of the capsular hand at the lateral side of the joint E PAYR Zentralbl f Chir 1025 lu 2202

## Fractures and Dislocations

If and to what point is it possible to recognize the age of a fracture from the radiographic image? ANDREI Chir d organi di movimento 1026, x 255

The healing of simple fractures an experimental study F E BLAISDELL and J T COWAN Arch Surg 1926 En

619 The standardization of splints in the \ E F N ALLE soy Mil Surgeon 1026 lvm 170

bone band and band introducer F E Hagre J Am

82

M Ass 1026 lxxxv1 840 The evolution of fractures treated by metallic extra osseous osteosynthesis M Fitte Semana méd 1926

Massage and movements in the treatment of fractures

W DARRACH Illinois M J 1926 xlix 199 The operative treatment of fractures with the report of

an unusually complicated case T A JOHNSON Illinois M I 1026 xlix 220

The indications for the pedicled bone graft and its

advantages J CURTILLET and R TILLIER Lyon chis 1925 XXII 780 [50] Larly treatment of fractures E L ELIASON Surg Clin

N 1m 1926 vi 289
Non union and delayed union of fractures E L
ELIASON and L K PERGUSON Surg Clin N Am 1926

Fracture dislocation E L ELIASON and D HINTON

Sur" Clin N Am 1926 vi 301 The fate of internal fixation in long bone fractures L L ELIASON Surg Clin N Am 1926 vi 304

A table for reducing fractures with fluoroscopic guidance E L ELIASON and E P PENDERGRASS Surg Clin N

Am 1926 vi 310

Tractures of the long bones E L ELIASON and L K
FERGLSON Surg Clin N Am 1926 vi 313

Interscapular thoracic di articulation for osteosarcoma PAITRE Lyon chir 1926 vviii 88 Traumatic and simultaneous di locations of both shoul

der joints A P HEINECK New Orleans M & S J 1926 leeviii 586 The operative reduction of old traumatic dislocations of the shoulder elbow and hip on the basis of 207 cases

J DOLLINGER Ergebn d Chir is Orthop 1923 xviii 5 1 large arillary osteoma secondary to luxation of the shoulder J Moreau Arch franco belges de chir 1925

Technique for the roentgen diagnosis of fractures of the clavicle F QUESADA Surg Gynec & Obst 1026 xli

Epiphyseal injuries at the lower end of the humerus W DARRACH and J J MOORHEAD Ann Surg 1926 IXXXIII 426

A total purely traumatic detachment of the inferior humeral epiphysi Camera Chir d organi di movimento 1926 X 294 Open reduction of an old luxation of the elbow TAVER

NIER Lyon chir 19 6 xxiii 83 Two roentgenograms relative to esteosynthesis of the

olecranon P TRIÉRY Bull et mém Soc nat de chir 1026 lu 201

A complicated fracture of the forearm conservative operation late result JUDET and PLANSON Bull et mem Soc d chirurgiens de Par 1926 xviii 14

Lucation of the radius at the elbow with fracture of the ulnar diaphysis J Moreau Arch franco belges de chir

Fractures of the head and neck of the radius C W

CUTLER JR Am J Surg 1926 xl 67
Types of Colles fracture R G CAROTHERS Internat
J Med & Surg 1926 xxxxx 100

Wrist joint injuries a plea for greater accuracy in treat ment E McBride J Oklahoma State M Ass 1926 xix 67

Injunes to the small bones of the hand and wrist T Y CROVA I Oklahoma State M Ass 1926 xix 64 Generalized metacarpophalangeal luvations of both hands

with para articular nodosities in chronic rheumatism. O CROUZON and I CHRISTOPHE Bull et mem Soc med d hôp de Par 1926 xlu 255 Fractures of the pelvis and rupture of the urethra

Cournoull's Lyon chir 1926 xxiii 75 A case of spontaneous fracture of the cervical vertebra

in a longitudinal direction DUTHERLET DE LAMOTHE Arch internat de laryngol 1926 xxxii 173

The treatment of congenital luxation of the hip by early mobilization R DUCROOUET Arch franco belges de chir 1925 TTVIU 1030

Operation for old congenital dislocation of the hip A B GILL Surg Chn N 1m 1926 vi 147 Subtrochanteric osteotomy for old luxation of the hip Corre and l'ATREILLE Lyon chir 19 6 xxiii 116

Fractures of the neck of the femur A TREVES Bull et mem Soc d chirurgiens de Par 1926 xviii 21 Subcapital fracture of the neck of the femur A. Whit

MAN J Am M Ass 1926 INVVI 926
The treatment of fracture of the neck of the femur

C WRITE Am J Surg 1926 vl 63
Fracture of the neck of the femur-malumon operation

W B PARSONS Ann Surg 1926 luxuu 425 Fixation of fractures of the femoral neck by a graft obtained from the fibula DUJARIER and CEVIONY Paris chir 1026 xvui t

Fracture of the neck of the femur late result of opera tion Robine au Bull et mem Soc nat de chir 1926 lu

Transverse fracture of the patella I J KLOPP Surg Clin N Am 1026 vi 170 Forward luxation of the tibia P Marriy Arch

franco-belges de chir 1025 xxviii 1062 The treatment of fractures of the upper end of the tibia

D DESGOUTTES and A RICARD J dechir 1925 xxvi 481 Spontaneous fracture of the tibia in bone syphilis re

sulting pseudarthrosis treatment with a bone graft result at the end of six and one half years Picot Bull et mem Soc nat de chir 1026 lu 111 Isolated posterior marginal fracture of the tibia Dulger

and Perness Rev dorthop 1926 xxxiii 130

Policlin Rome 1926 xxviii sez prat 332

Fractures of the os calcis diagnosis and treatment H R CONN Radiology 1926 vi 228

Subastragaloid arthrodesis in the treatment of old fiac tures of the calcaneus R S REICH Surg Gynec & Obst 1026 Xln 420

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

## Blood Vessels

Knife wound of the common carotid in a hæmophiliae G Bolognest Ann ital dichir 1926 v 132

Threatened gangrene of the arm due to mjury of the main artery A FULLERTON Brit M J 1026 1 427

Intracranial aneurisms H Opquist Acta med Scand 1926 lun 286

The report of a case of ruptured cerebral ancurism A W GREEN I Onhth Otol & Laryngol 10 6 YEX, 106

Aneurism of the abdominal aorta I R GOYENA Se

mana méd , 19 6, txtiii, 273

Rupture of an aneurism on a branch of the left renal artery complicating pregnancy A E CHISHOLM Brit M J 1926 1, 419 False bilateral symmetrical aneurism of the popliteal

artery in a patient with a negative Wassermann test S

Solieri Ann ital di chir 1926 V, 137
Mesenteric vascular occlusion A Cowles J Olla homa State M Ass 1926 TIX 33

Artenotomy for embolus obstructing the circulation in an extremity illustrated by a successful case
MACDOUGALL Canadian M Ass J 1926, vvi 265

A case of embolus in the popliteal artery A ODELBERG Acta chirurg Scand 19 6 liv 540
Varicose veins J D Elliott and W M Sylvis Surb
Clin N Am 1926, vi 1/5

Varix of the superficial epigastric vein simulating femoral hernia W Hughsov Surg , Gynec & Obst 1926 vln

Varices of the internal saphenous vein resection of the venous arch (at the sanhenofemoral junction) R Fino CHIETTO Rev de cirug , Buenos Aires 1926 v 83

Anastomosis of veins a method without the use of special instruments C E BIRD Surg, Gynec & Obst,

1026 xlu 428 Forthelization and transplantation of the teins A

RESCREE Deutsche Ztschr f Chir, 1925 cvcm 366 Induction of hyperæmia in the extremities by means of paraneural injections of 10 per cent alcoholic sodium chlonde solution H Boit Zentralbl f Chir 1925 lu 2708

## Blood Transfusion

Symptomatic treatment of hamorrhage in medical practice Anguera de Sojo Arch de med cirug y especial 1026 VI 408

The peripheral circulation of the blood during the re active hyperamia following blood loss E WEHNER Klin

Wehnschr 19 5 11 2004

The action of the roentgen ray on the regeneration of blood F Herzog Strahlentherapie 1925, xix, 759 [53]

Hæmophilia C S LAWRENCE South M & S 1926, Ixxxvm 171

Clinical observations and blood studies on a family of hamophiliacs R Monteleone Policlin, Rome 1926 vxxiii sez prat 361

Experimental studies in the factors of blood coagulation

Mas and Magro Siglo méd 1926 lxxiii 145 171 Experimental studies on the intravenous infusion of hypotonic and hypertonic salt solution Hardyoshi

SENGA Acta scholae med univ imp Kioto 1925 vii 531 Inhentance and medicolegal application of the blood gmup J A BUCHANAN Med J & Rec , 1926 CXXIII 299

The preservation of blood for transfusion M C PERRY Wisconsin M J 1926 xxv 1 3 [53] The transfusion of blood J McLeop J South Carolina

M Ass 19 6 TUI 57

Intrapentoneal transfusion in infants and young children and its use in conjunction with intraperitoneal saline solu tion O W Hill, J T SMITH and W R CROSS Arch Pediat 19 6 din, 186

## Lymph Vessels and Glands

Lymphatic drainage W A Costain N York State M J 19 6 txv1 225 Lymphangioplasty as a method of treatment of ele phantiasis of the lower extremities M SOLOLOWSKI Zentralbl f Chir 1925, ln, 2583

Tuberculous adenitis in children J H Jorson Surg

Clin N Am 1926 vi, 133 Lymphatic cysts of the neck Ε Β WAPFLE and Γ Ε FOWLER Northwest Med , 1926 xxv 140

N Malignant lymphogranulomatosis 1 CORHOEVE

Acta radiol 1925, iv 56, [54]
Hödglin s disease in man and animals Sir H ROLLES TON G H WOOLBRIDGE H M FLETCHER L PLGH and others Proc Roy Soc Med Lond 1926, xix, Sect

Med & Comparative Med 39
Lymphogranulomatosis (Hodgkin's disease) Cincinnati J M 19 6 vn 8

Notes on the significant histological appearances found in lymphadenoma C C Twort Med Press, 19 6 clxxii

Lymphosarcomatosis A E Bianchi An Inst Mod de clfn méd 1925 17 120

# SURGICAL TECHNIQUE

Operative Surgery and Technique Postoperative Treatment

Psychotherapy and surgery V PAUCHET Rev de

cirug Buenos Aires, 1926 v 49 The treatment of the heart with digitalis before opera tions E MEYER and A REINHOLD Khn Wchuschr 1925 11 1948

The handicapped surgical patient H Due to cardio vascular disease F H Laney and B E HAMILTON

Canadian M Ass J 1926 xvi 283
Significance and treatment of anæmia in surgical pa tients I RAINE Wisconsin M J 1926 XXVI 121

Secondary indications in traumatic surgery J E RAWLS Internat J Med & Surg 1926 XXIX 107 Plastic and reconstructive surgery R H Ivy Surg Clin N Am 1926 vi 245

Some principles in plastic surgery T P KILNER Insh J M Sc 1926 p 77

Plastic surgery in children comprising bridge flaps pedicle flaps tubed flaps and epithelial inlays C G
BURNICK and F BEEKMAN Ann Surg 1926 lxxxii, 420
BURNICK AND TEXAS STATE J M, 1926 xxi 668
Electrical burns G E BLUE Internat J Med & Surg

1926 43314 116

The progress in burns and scalds G T PACK Am I

Surg 1926 d 59 Contractures due to burns of the face neck and body

M BEHRENN Surg Clin N Am, 1926 VI 237 The grawth energy of implanted epithelia H Kurtzann

Arch i klin Chir 19 5 exxxviii 534

The indications and technique of injecting iodized oil in

absces es and chronic fistulæ to determine their origin E Sorrel and A Delahaye Rev d orthop, 1926 xxxiii

A new method of extracting needles from the deep parts of the body R FAGGIOLI Semana med 1026 XXXIII 57I

Venoclysis or intravenous nutrition G A HENDON Texas State J M 1026 xx1 662 The treatment of postoperative retention of urine

L Michon Bull Soc d'obst et de gynéc de Par 1926 xv 63 Postoperative pulmonary complications-a study of a

series of cases E D ROTHMAN J Michigan State M Soc 1026 TTV 140

84

The treatment of postoperative lung affections with intra muscular injections of the patient's blood C RAUSCHE

Deutsche Ztschr f Chir 1925 cvciii 349 The treatment of postoperative bronchitis and pneumonia by injections of the patient's blood E GRASER Zentralbl

f Chir 1925 ln 2514

# Antiseptic Surgery Treatment of Wounds and Infections

The treatment of lacerated wounds within two hours J L SLADEN Indian V Gaz 1926 km 113 Virulent surgical infections W H BARNES California

& West Med 1926 xxiv 349 And one dyes in the treatment of infections J W CHURCH

HAN Chin Med to 6 texus 153 Danger of primary suture in open traumatic wounds of civil surgery B DESPLAS Presse med Par 1026 COE VITE

Intravenous therapy in acute infections and infectious diseases H H Young J Michigan State M Soc 1926

Effects of intravenous injections of acriffavine in sepsis C F TENNEY and J LINIZ Arch Int Med 1926 RXXVII

The purified antidiphthentic and antitetanic serum of accidents G RAMON Presse med Par 1926 TEXIV 323
The treatment of carbuncle in man I DESTERANO and R F VACCUREZZA Semana méd 1026 xxxuu r65

The operative treatment of carbuncle A Engineer Lancet 1926 ccx 548

An attempt to treat bubonic plague with the bacterio-

phage F DHÉRELLE Presse méd Par 1025 xxxiii The ray treatment of superficial pyogenic miccions

I GERBER Rhode Island M J 1926 ix 33
Treatment of acute inflammations by means of the

ravs I Cauros Arch brasil de med 10 6 xv1 7

## Anæsthesia

Narcosis and investigations with solveshin K Fromer Muenchen med Wchuschr 1925 lxx11 1782

Narcylen anæsthesia W Schmitt Wuerzb Abhandl a d Gesamtgeb d Med 1925 ii 229 Blood studies in narcylen anæsthesia E A MUELLER

Zentralbi f Gynaek 1925 xlix 2556

Local anxisthesia in general practice W O Wood

Practitioner road cxvi 324 Demonstration of spinal anaesthesia W W Barcock Surg Clin V Am 1026 vi r

The technique of generalized spinal anaesthesia T Jonesco Presse med Par 1926 xxxiv 145

Spinal analgesia and azotæmia Abadie Balbots and DORNIER Presse med Par 1926 xxxiv 387 Epileptiform cramps as a complication of paravertebral

anasthesia of the neck O Roemene icta chirurg Scand 1926 liv 545

Cystic purulent cerebrospinal meningitis following lumbar anasthesia induced with novocain J Boros Therapia 1925 11 118 Sacral and parasacral anasthesia E H Gallonay

New Orleans M & S J 1926 leavin 608 Sacral anaesthesia some practical and experimental points R. E Fark Arch Surg 1926 zii 715

## PHYSICOCHEMICAL METHODS IN SURGERY

## Roentgenology

Special training for physicians in roentgenology G HOLZENECHT Radiology 1926 vt 181

The relation of the roentgenologist and his work to the surgeon L FRANK Radiology 1926 vi 187
A magnifying stereoscope E Lysholm Acta radiol

The present status of roentgenological examination with lipiodol J A Sicarn and J Forestier Rev med d Barcelona 1925 u 572

Preliminary report of the Committee on Standardization of X ray Measurements E C ERNST O GLASSER W STENSTROM N E DORSEY and others Radiology 1926

Skepticism in roentgen therapy B N Canovas Siglo méd 1926 lexin réq Limitations contra indications and dangers in radiology C BENSON JR Hahneman Month 1026 fu 160

The dangers and limitations of roentgen therapy J W FRANK Hahneman Month 1926 lvi 164
The correlation of surgery and radiotherapy M M ROLAND J Oklahoma State M Ass 1026 VIX 71

The problem of latency and rhy thm in radiation reactions of the skin G Schwarz Muenchen med Webnschr 1025 lxxx 1867

Studies of the roentgen crythema of the human skin Skin capillary changes after exposure to unfiltered radiation L A Pointe Radiology 1926 vi 236 Radiations with \ rays of the endocrine regions in the treatment of psoriasi E Duprez Presse med Par 19 6

XXXV 186 Moderately deep radiotherapy J BELOT Acta radiol

Radiotherapy of non-mahignant conditions F Williams

California & West Med 1926 xxiv 340 The harmostatic effects of roentgen radiations G SPINELLY Actinoterapia 1926 V 115

The antibacterial action of secondary reactions F Vozza Actinoterania 1026 v 105

Radiation therapy in cancer H P Doub J Michigan

State M Soc 1976 XXV 134

The analgesic effects of X rays in cancer and other pain fuldisorders F Hernaman-Johnson Practitioner 19 6 CTV1 314

A roentgen accident with a fatal result through the short circuiting of the secondary current G A WETTERSTRAND Acta radiol 1926 v 105

#### Radium

Radium treatment of lupus vulgaris F V Novik Acta radiol 1926 v 37

## Miscellaneous

Physiotherapeutics past and present O F SCHUSSLER I Lancet to 6 xlv1 97

Physiotherapy and radiology B B GROVER Med Herald & Physiotherap 10 6 vlv 43

Light treatment SIR H GAUVAIN, L HILL, MACCORNIC and others But M J 1926 1 475

Analysis and comparison of light sources used in actino theraps T T BAKER But J Radiol 19 6 vext 105 Standardization of ultraviolet rays E A PORLE J

Am M Ass 1926 lexxvi 8r8 The spectra of ultraviolet absorption and the mechanism

of certain reactions H DAMIANOVICH and A T WILLIAMS An Inst Mod de chn med , 1925, 17, 129

Ultra violet radiation L Hill, A Eminow and H DALLY But M 1, 1026 1 657

The toruc effects of ultraviolet radiations in children

I L SHERRY Clin Med 10 6, xxxiii 170 Physical and biological problems in heliotherapy E A POHLE Am J Roentgenol 1926 XV 193

Heliotherapy at low altitudes A H FREIBERG

Am M Ass 1926 lexxv1 731

Hehotherapy in tuberculosis and a new instrument for its use J W Kime Med J & Rec. 19 6 CXXIII r64 [57]
Surgical diathermy E P CUMBERBATCH Chicago M Rec 1926 xlv111 79

Electrothermic methods in the treatment of neoplastic and allied diseases W L CLARK J Am M Ass, 10 6 lexxv1, 502

# MISCELLANEOUS

## Clinical Entities—General Physiological Conditions

Chloroma the recent literature and a case report D BRANAN Bull Johns Hopkins Hosp Balt 1926 TEXTIL

Notes on the treatment of surgical coroplications of diabetes mellitus R. C COCHRANE Boston M & S J

Diffuse phlegmon in a diabetic patient Izquierro and HERNANDEZ Arch de med cirug y especial 1926 vii Ulter of the leg localization as a point of differential

diagnosis II Goonyan Am J Surg 1926 vl 63
Raynaud's disease limitations of the classical picture as a guide to diagnosis report of a case showing extensive bone involvement J J MONARIAN Am J M Sc 19 6 cl 220 346

A case of Raynaud s disease with symmetrical gangrene of the extremities L De Genves and P Isaac Georges Bull et mém Soc méd d hôp de Par 1926 du 353 A case of granulomatosis C DE Toxiraso and A F

Branchi An Inst Mod de clin med 1025 1x 157

The cause of turcors M MARULLAZ Rev med de la Susse Rom, 19 6 dvi 1

The action of hydrolyzed tumors of embryonic tissue and of saccharomyces cenyisiæ in the evolution of neoplasms C Laclau and I L IMAZ An Inst Mod de chin med 19 3 1X 176

On the frequency of spontaneous tumors in the domestic Iowl M SCHVEIDER J Exper Med 1926 vlin 433
Adenoma of the fowl R. Calvanico Polichin Rome 19 6 xxvii sez chir 1

Cutaneous myomata O Angelelli Policin Rome 19 6 xxxiii sez chir 69

Granuloma inguinale (report of a ca e) H E CONNOR Nat M Ass 1926 xviu 16

Precancerous states J H Sequiera G L CHEATLE IN S HANDLEY Z COPE and E H SHAW Proc Rov Soc

Med, Lond 1926, the Sect Surg I
Cancer in Massachusetts J H Nichols F W Good
HUE W E CHAMPION G H BIGELOW and H L LOM BARD Boston M & S J 19 6 exciv 488

Variation in the mortality from cancer amongst persons in the different districts of Glasgow and its relationship to social status M Young Glas ow M J rg 6 ct oa

The problem of malignant disease as met by the m ternst S STROUSE J Michigan State M Soc 19 6, xxx 128

The contact of the surgeon with the problem of cancer G W CREE J Michigan State M Ass 1926 XX 124 Cancer from various points of view W D CHAMPVEYS, G E GASK W D NEWCOMB Lancet, 1926 ccv 661

Observations on cancer-with a case report L Frank Internat I Med & Surg 1020 XXXX 102 Serum diagnosis of malignant tumors by means of a

mio tagmin reaction A Scoutring Riv ital di ginec, 1026 IV \*21 Cutaneous manifestations as early symptoms of car

cinoma A HARF Zentralbl f Chir 19 5 lii 2600

The diagnosis and prognosis of skin malignancies L HOLLANDER Atlantic M J 1926 xxix, 379 Accidental observation of a malignant tumor in man P LECÈNE and A LACASSAGNE Ann danat path 1026

Studies upon the evolution of the pigmented cells in certain epitheliomata involving the epidermis CAUDIÈRE Ann danat path 1926 in 110

Studies upon a contagious epithelioma in birds M LUSEVA Sperimentale 19 5 lxxxx 969
A comparative study of myxosarcoma in man and

Peyton Roux sarcoma D BRACHETTO BRIAN Rev Soc argent de biol 1925 1 709

A comparative study of myrosarcoma in man and the sarcoma of Peyton Rous D B BRIAN Semana med 10 6 XXXIII 420

Cancer-its causes and control I Young Med I & Rec 10 6 CTU1 345 The etiology of malignant new growths C GARGANO

Ann ital di chir 1926 v 07 The etiology of malignant tumors R KRAUS Ars roed

10°6 H 3° Is cancer hereditary? M Castro Arch brasil de med .

1926 tv1 17

The causes of cancer of the skin J F SCHAMBERG Atlantic W J 19 6 TXIT 377

The genesis prophylaxis and treatment of cancer R. MARCHESINI Policlin Rome 19 6 vocali sez med 120 The treatment of malignant tumors M Gallino An

Inst Mod de clin med 1925 iv 183 The treatment of epithelioma of the skin G E Prantier Atlantic VI J 1926 Exit 38r

The chemotherapy of cancer N C LACLAU I L IMAZ and E V Zappi An Inst Mod de clin med 1925 ix

The oncolytic power of cancerous serum in relation to roentgen therapy G C PERACCHIA Actinoterapia 1026 v 138

Experimental treatment of human cancer by an anticancerous serum N Mori Riforma med 1926 zin 151 The treatment of mop rable malignant turnors with the mixed toxins of erysipelas and bacillus prodigiosus W B

COLEY Therap Gaz 1926 1 157

The variation in the leucocytic formula of cancer patients

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Notes on the u e of lead colloids in the treatment of cancer F Coke and J B Cook But M J 1926 1 415 Lead in the treatment of cancer BLAIR BELL CUNNING IN ADAMS and others Brit M J 1926 2 568

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Tuberculoss of the tusue of mammals in culture A A Maximow Ann danat path 1920 us 1 Studies on acute miliary tuberculosis J VALDES LAMBEA

Siglo med 1926 frxiii 195 239 Light in treatment of tuberculosis SIR N WALKER

Edinburgh M I 1926 TTIM 122 Heliotherapy in tuberculosis J H BENDES Minnesota Med 1926 14 112

The gold treatment of urgical tuberculous Steptus GROTZLY Z ntraibl f Chir 102, ln 2612

The himmoclastic on of vaccine therapy in surgical tuberculosis M Cusavi Ann itst dictor 1920 v 147 in the digestive tract C TENBROECK and J II BACER I Exper Med 1026 xlm 161 Recurring ery ip las and thyro ovarian in uffi iency I BONILLA Arch de med cirug y especial 1920 vii 452

The smmunity produced by the growth of tetanus bacilla

Syr hills and surgical conditions A G PAYVE New Orleans M & S J 1926 Ixxviii 582

Septicæmia due to bacillus aertrucke R V Soury and J M HENDERSON Brit M J 1926 1 421
Amerobic streptococci A R I Révor Presse méd Par

1926 xxxiv 186

Studies on the biology of streptococcus V Antigenic relationships between strains of streptococcus from scarlet fever and crysipeias I A STEVENS and A R. Docuez J Exper Med 1926 xim 379

The process of recovery from septicemia due to a staphylococcus the role of the fivation abscess and its

secondary effects on the evolution of pulmonary tuber culosi M Villager L Justin Besingen and R Fau

VERT Bul et mêm Soc mêd d hôp de Par 1926 zlu

A new medium for gonococcus culture P S I ELOLZE and L C VITCET J Am M Ass 1926 lexxy 684 [60] Actinomycosis successfully treated by iodine in mik H Curry Brit M J 1926 1 418

Blastomycosis a case report A. L. Pueston Wisconsin M I 1926 XXV 141

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Studies on the physiology of the genital hormones the effect of extracts on the genital glands and of the testicular and ovarian fluids upon the peripheral vessels N N Auprianzen Zischr i d ges exper Med 1925 zivu 568

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Observations on the reticular connective tissue and the structure of the capillaries in granulation tusies G FAVILLE Sperimentale 1925 lexit 1040

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# EDITOR'S COMMENT

THE question of malignant disease of the lachrymal gland and of the nose and para nasal sinuses presents a particularly interest ing problem both from the point of view of nathology and of treatment. The complex nature of such growths and the difficulty of assigning them to definite pathological groups have long been recognized Because of their accessibility it would seem that their presence should be recognized early in the course of the disease and that they would afford a necuharly favorable opportunity for determining the efficacy of irradiation and other non surgical methods of treatment Four abstracts in the present issue of the International Abstract of Surgley two by Pfingst (p 87) and Strada and Zavalia (p 88) upon tumors of the lachrymal sac, and two by Quick (p 9a) and klestadt and Martenstein (p q2) upon malignant di ease of the nose and paranasal sinuses summarize some recent con tributions concerned with this problem Because of the failure of intensive irradiation to control the growth and because of occasional serious roentgen injuries. Klestadt and Martenstein recommend irradiation in fractional doses. Ouick recommends particularly the use of buried radium emanation in gold tubes - a method which permits both the use of very small tubes and exclusion of the irritating beta rays. This application is supplemented by external doses of X ray or radium or both and later by cautery removal of the irradiated tumor tissue

Codman's resume of the work of the Registriof Bone Sarcoma and his discussion of the symptoms and course of osteogenetic sarcoma (p. 133) represent some of the helpful results of his carnet efforts to collect and study every reported case of bone sarcoma. The fact that he has been able to study 650 cases indicates not only the magnitude of the task he has undertaken, but also future possibilities in the development of our knowledge of bone tumors. As Codman has pointed out so often and carnestly, the greatest hope for the successful attack of the problem of malignancy hes in the co-operative efforts of the entire mechcal and surgical profession.

Flors paper upon obliteration of the urset in gynecological practice (p 129) bouches upon an important problem in gynecological surgery Gayet and Peycelon's warnings with reference to pyclonephritis as a postoperative complication of prostatectomy (p 131) emphasize a possible serious factor in a condition all ready difficult of

treatment

Codman's observations of the relation of the sympathetic nervous system to skeletal tonus (p 99) and Brechot's report of the results of laminectomy in cases of 'idiopathic' incominence of unne (p 98) concern neurological problems of interest and importance Rollier's description of his method of treatment of Potts disease (p 135) indicates the results that may be attained with heliotherupy applied under suit able conditions

# INTERNATIONAL ABSTRACT OF SURGERY

AUGUST, 1926

# ABSTRACTS OF CURRENT LITERATURE

# SURGERY OF THE HEAD AND NECK

## EYE

Jackson E Recent Mechanical Injuries to the Eyes Their Examination and Management Northuest Med 1926 VV 138

Jackson calls attention to the fact that the effects of contusions of the eye-ball may be unrecinguized in a superficial examination because external evidence of grave internal lesions may be absent, and that there may he no evidence of serious trouble at the first ophthalmic examination because such injuries as irractive in the orbit do not immediately affect the eyes. Contusions may cause cataract without rup ture of the capsule, but the opacity may not be noted for months. The examination following a contusion should therefore include inspection, palpation for changes in tension, and X ray examination for fractures and foreign bodies.

Perforating injuries may have few external signs upon which the diagnosis may be made. Small wounds close quickly, many parts do not bleed and the tension may be restored in a few hours. Two haccerations may occur from the same accident, as when a shot passes through one side and out the other. The nature of the missile and the direction from which it came should be determined. The presence or a benne of a foreign body must be established definitely. Because of the long exposure made so frequently in roentgen ray examinations foreign bodies may not be detected by the X-ray if they are very small. As a rule all foreign bodies in the eyeball should be removed as soon as possible. The conditions under which a departure from this rule may be considered are very rare. Viscon Wescorx MD

Durr S A The Operations for Glaucoma Am J Ophth 1926 3 s 1x 174

This report was a thesis submitted for the degree of M S in Ophthalmology at the University in Pennsylvania The better known operations for glaucoma are compared as to their value in different types of cases, and an attempt is made to determine

the best operation for each type of glaucoma. The canclusions are based upon a survey of the literature

Indectomy trephining indofasis and cyclo dials as are fully covered while the Lagrange apera ton peripheral indofants, indenclesis and cyclec times are discussed briefly. The use of adminishing flautama as compared to posterior sclerotomy is reviewed.

The conclusions drawn from fifty-eight original articles are as follows

- 1 Nn one operation can be used in all cases 2 In acute glaucoma the procedure of choice is indectomy with the use of adrenalin or a preliminary posterior selerotomy, if needed Trepbining or inductasts is permissible 3. The Elhot trepbine should be used in chronic
- 3 The Elliot trepbine should be used in chronic non engestive glaucoma especially with contracted fields. Indutasis may be done. Cyclodialy sis may be tired first, the trephine heing reserved for resistant cases.
- be tried first the trephine heing reserved for resistant cases

  4 Indectomy should be performed in glaucoma due to swelling of the lens
- 5 Buphthalmos is best combated by trephining or repeated posterior sclerotomies
- 6 Cyclodialysis should be used in glaucoma due to disease of the retinal vessels and may be done in the cases of patients who bave chronic conjunctivitis
- 7 Adrenalm has been found of value in ophthal moscopic examination, as a therapeutic agent and an aid in operation

Pfingst A O Neoplasms of the Lachrymal Gland with a Report of Three Cases Arch Ophth 1926 lv 139

Warthin was the first accurately to describe the pathogenesis of tumors of the lachry mal gland The first case in such a tumor was reported by Hildanus in 1593. The first authentic case in which a micro scopic examination was made was reported by Becker in 1867.

Warthin's report covers all of the cases in the literature up to 1921, a total of 132 The neoplasms

in these cases are described by widely different terms ranging from simple hypertrophy to malignant growths of epithelial and fibrous nature According to the diagnosis they repre ented forty four varieties of tumor Warthin concluded however that the majority were mixed tumors of endothelial origin identical with the slowly growing mixed tumors of the salivary glands In his opinion these new growths are peculiar to the serous variety of gland structure which is found in the lachrymal and pa rotid glands and a part of the submaxillary glands The proper term for them he believes is endo thelioma

Hashinger also accepted the theory of the endo thelial origin of these tumors but Verhoelf in a re port of five cases stated that they arise from epi thelial cells Greeve who completed the bibliog raphy after Warthin's report classifies them into two main groups (1) mixed tumors and (2) tumors characterized by overgrowths of small round cells in the gland stroma a condition known as Miku licz disease In the first group he places the follow

ing types

Tumors in which the gland tubules have a scant amount of fibrous or my romatous tissue some lymphoid tissue some flattened epithelium some prickle cells and often cartilage which are sur rounded by a rather dense capsule of white fibrous tissue and are usually slow in development. Such tumors are not associated with enlargement of the glands and have never been known to lead to general metastasis They usually occur in adults. After removal they show no tendency to recur

2 Tumors made up almost entirely of myzo matous stroma containing some branch columns of

cells resembling epithelial cell

3 Tumors of the cylindrom4 type which micro scopically resemble adenocarcinomata never con tain cartilage and have little or no surrounding

capsule Clinically the e are the most malignant Mikulicz disease is apparently not a neoplastic growth but merely an enlargement of the gland due

to cell infiltration

The latest and most comprehensive contribution on this condition was made by Lane in 1922 In a very careful survey of the literature. Lane was able to find only 256 authentic case

The author believes that the nomenclature of lachremal gland tumors should be based solely on their microscopic make up and that the species of the tumor should be determined by the nature of the prototype cell

The clinical course of tumors of the lachrymal gland varies considerably. The majority of such growths develop very slowly in the early stages a long period of inactivity preceding their active de velopment It is probable that the slowness of their growth is due to the dense capsule

These tumors are seen u ually in persons past middle age No doubt they begin earlier but because of their slow growth and their lack of symptoms they are unnoticed until they reach a considerable size and cause exophthalmos. The average size of those that have come to operation has been that of a pigeon s egg hut some were as large as a hen s egg Occasionally there are several maller tumors ad pacent to the large one Most lachrymal gland tumors are nodular and firm In a few cases a history of early pain has been given. Some patients com dain of transitory diplopia and blurring of vision Ultimately vision may become quite defective as the result of astigmatism from the pressure of the tumor on the cornea papillitis hyperæmia of the papitla or optic nerve atrophy

A clinical division of the tumors into benish and malignant is impossible because they are practically

all potentially malignant

Larly and complete removal of the entire mass with retention of the eyeball is the indicated treat ment The method of removal depends upon the size of the tumor. In a few cases in which it is large the Kroenlein operation is indicated. No case of recurrence after the Kroenlein operation has been reported The removal of quite large tumors can be effected readily and with little or no deformity through an men ion along the orbital edge

L L McCoy MD

Strada F, and Zavalia A U Malignant Tumors of the Lachrymal Sac (Contribución al estudio de los tumores malignos del saco lagamal) Seman: med 102, XXXII 1100

A man of 57 years had noted increasing lack ry mation of the left eye for several months For several years he had had chronic nasal catarrh max illary sinusitis on the left side and mucous polyps in the nasal fossæ These had been cured by operation but recently the catarrh and nasal polyps had re curred Shortly before the heginning of the epiphora a hard round swelling appeared in the left lachry mal sae and gradually increased in size Pain then hegan in the left lichtymal region and extended backward involving half of the head and increasing in severity

Examination revealed in the lachrymal sac a fibrous tumor over which the skin was freely mov able The neoplasm extended backward and seemed to be incorporated with the internal wall of the orbit The lachry mal canal was permeable The Wasser

mann test was negative

The tumor and lachry mal sac were removed under local anæsthesia This was not difficult as there were no adhesions except for a short distance to the periosteum of the floor of the orbit. When the perios teum was dissected off, the hone appeared normal

Histological examination of the tumor showed it to be a carcinoma The patient was given one roent gen treatment and then went to another town where he was given one irradiation with radium but re fused to continue the treatment because of the intense pun which followed it. He died of recurrence in the maxillary sinus and a metastasis in one kidney about a year later

Only twenty five such tumors have been reported in the literature They frequently follow chronic dacry ocystitis There is a pretumoral stage of dacry o cystitis or epiphora a second period in which the tumor is visible and a third period of generalization and cachevia A differential diagnosis from dacryo cystitis is impossible in the first stage and the diag nosis is seldom made before the tumor appears. In the majority of the cases the condition has been fatal and in the few in which the operation seems to have resulted in a cure it is too early to determine whether the cure is permanent The author believes that roentgen and radium therapy may be effective. Al though his patient refused to continue the irradiation treatment, the tumor did not recur at its original AUDREY G MORGAN M D

Nutt A B The Result of Treatment by Artificial Light on Phlyctenular and Other Tuberculous Lesions of the Eye Brit J Ophth 19 6 x, 138

Tuherculosis and rickets have yielded to constant exposure to sunlight when other factors such as the vitamines have been supplied. In cases of phlyc tenules, which occur most frequently in persons with the strumous diathesis those with poor living con ditions and those with a faulty diet treatment with the ultraviolet rays has given good results when vitamines have been supplied in the form of cod liver oil and hypophosphites The exposure to the quartz lamp is at first ten minutes long and then gradually extended to an hour. In thirty cases which have been under observation for a year the which have been gratifying
VIROLL WESCOFF M D

Adrogué, E Dendritle Degeneration of the Cornea (Sobre la degeneración en malla o en reja de la cór nea) Rev soc argent de oftalmol 10 5 1 33

Fuchs classifies dendritic degeneration of the cor nea as a dystrophic process of the cornea due to dis turbance of nutrition. It is differentiated from in flammation by the fact that it has no objective signs of inflammation its course is progressive while inflammation, after an acute period subsides, there is no infiltration of leucocytes, and only degenera tive processes, such as fatty degeneration (arcus senilis), calcareous degeneration (ribbon shaped keratitis), or hyaline degeneration (Groenouw's keratitis) are found

Adrogue reports the case of a man 37 years of age who had had attacks of redness of the eye and photo phobia lasting from ten to fifteen days and occurring two or three times a year for a period of ten years His chief complaint, however, was a progressive decrease of vision Lateral examination with ordi nary illumination showed a diffuse opacity of the cornea The slit lamp revealed a network of white lines which were most abundant in the median zone hetween the edge of the cornea and its center The picture of this network was unusually clear

In all of the cases seen by the author there were recurrent attacks of keratitis characterized by photo phobia which was generally intense ciliary and con junctival injection the latter generally not very intense, pain in the ciliary region extending to the region supplied by the ophthalmic branch of the tri facial nerve, and frontal and hemicranial headache Instillation of fluorescin showed a loss of epithelium in the form characteristic of geographic herpes. These lesions and classical herpetic keratitis cannot he con fused with any other superficial lesion of the epi thelium of the cornea hy one who has had experience with the slit lamp The lesion is bilateral

The author believes that dendritic keratitis and Groenous s keratitis are the same condition and that they both follow attacks of herpetic kerititis

AIDERLY G. MORGAN M.D.

Roetth A On the Question of Phaco Anaphylactic Endophthalmitis Arch Ophth 1926 lv, 103

Roetth says that to prove the occurrence of phaco an iphilactic endophthalmitis in human pathology the following questions must be answered Can animals be sensitized to lens protein by injection into the eye? Is the rupture of the capsule in sen sitized animals followed by local or general reactions? Can own lens protein of the animal injected into the eve or elsewhere cause hypersensitivity?

Krusius Roemer, and Gebb found that intra cardiac or intraperitoneal reinjections of small quantities of different proteins including lens pro tein after primary injections into the vitreous caused anaphylactic shock

The results of experiments to determine whether rupture of the capsule in sensitized animals is followed by a local or general reaction have been contra dictory Krusius found very slight anaphylactic re actions while Roemer and Gebb observed no general anaphylaxis De Waele sensitized rabbits to lens protein and performed a discission two, three five eight, or twelve days later. He found that the sooner the discission was performed after the injection the stronger the reaction Verhoeff and Le moine reported marked ocular reactions after dis cission in four of seven guinea pigs which were sen sitized with one subcutaneous injection of lens pro

In experiments to determine whether own lens protein of the animal injected in the eye or elsewhere can cause hypersensitivity Uhlenhuth and Handel and later, Mita succeeded in provoking anaphy lactic shock in guinea pigs which were sensitized to their own lens protein Krusius observed slight ana phylactic symptoms in guinea pigs after the intro duction of lens fragments from guinea pigs into their anterior chambers or the performance of discission first on one eye and later on the other Roemer and Gehh were unable to obtain auto anaphylaxis in any Experiments have shown that hypersensi

tivity to own lens protein can he produced only hy giving several injections of large doses of homologous lens protein

A summary of the results of experiments on animals with homologous lens protein therefore shows that endophthalmitis phaco anaphylactica is not proved

In conclusion Ruskin emphasizes the importance of the role played by maxillary sinusitis in the pro duction of nasal obstruction chronic laryngitis, and

MITHORFER cites the fact that while it has been known for many years that nasal polyps are an extension of a primary disease in the antrum hyper plasma of the antrum without extension of polypi into the nose has not been recognized very often He describes a form of hyperplastic disease of the antrum in which there are few if any pathological changes in the nasal mucosa namely, primary hy perplastic maxillary sinusitis

Hyperplastic maxillary sinusitis is of the following

four types

bronchitis in children

Antrum hyp rplasia with extension of polypi into

the nose combined with suppuration

Antrum hyp rplasia with extension of numerous polypi or a solitary polyp into the nose hut without a purulent discharge

Hyperplasia of the antrum without extension of polypi into the nose and with or without mild patho logical changes in the nasal mucous membrace and the other sinuses (primary hyperplastic maxillary

sınusıtıs) Hyperplasm of the recess s of the antrum only

(recess hyperplasia) Following a discussion of the pathology and symp toms the author draws the following conclusions

 Maxillary sinus hyp rplasia was always found when an extensive nasal polyposis was present

2 Hyperplasia of the antrum may be present many years without causing symptoms referable to the antrum

The failure of the removal of pathological changes in the nose to give relief should direct at

tention to the antrum 4 Hyperplastic ethmoiditis of a mild type may be associated with gross hyperplastic changes in the

maxillary sinuses 5 The roentgenogram will be found of aid in arriving at a conclusion as to the advisability of ex ploring the antrum

6 An explorators opening is often the only means of determining the presence or absence of hyp r plastic changes within the cavity of the antrum

7 Hyp relastic changes in the antrum are or s of more often than has h en hitherto susp cted

8 If the possibility of antrum hyperplasia were always borne in mind and the cavity investigated before the performance of an intranasal sinus opera tion the results of intranasal sinus surgery would be more satisfactory A R HOLLENDER M D

Klestadt W and Martenstein II Combined Operative and Irradiation Treatment of Cancer of the Nose and Accessory Sinuses (Die kombi nierte operative und radiologische Behandlung der Nasen Nebenhoehlenkrebse) Beile z klan Chir

1925 CTTUN 626

The authors report upon fifty eight cases of malig nancy of the nose and accessory sinus a seeo during a

period of fifteen years. Most of the patients were hetween 50 and 60 years of age. In forty nine cases the neoplasm was a carcinoma and in nine a sarcoma More than half of the patients complained of coryza with nasal obstruction. In 36 2 p r cent polyps were found Nasal polyps and internal nasal cancers both follow chronic irritation of the nasal mucosa. The antrum of Highmore and the anterior portion of the ethmoid bone always contain pus

The treatment requires (r) radical removal of the growth (2) simultaneous radical op ration on all the diseased accessory sinuses (3) irradiation In ternal cancer occurs most frequently in the upper part of the nose Th refore the best incision for ex posure of the operative area is the Weber incision for resection of the maxilla which is carried upward along the supra orbital margin along the lines of the Killian incision The facial wall of the antrum of Highmore, the lateral wall of the nose with the aper ture the anterior wall of the sphenoidal sinus the orbital wall of the frontal sinus and the mucosa of all the accessory sinuses are removed and the tumor masses curetted with a sharp curette. Of the hard palate which is ess utial for nutrition and spech no more is removed than is absolutely necessary. The dura and the structures of the pterygopalatine fossa are critical sites. The suture of the wound is confined to the eyebrow the ala nası and the vestibule of the mouth in order to leave a portal of entry for the subsequent irradiation

Of the fifty eight cas s thirty eight were subjected to irradiation treatm nt consisting of roentgen or radium irradiation alone and in combination Sixty four op rations were done on these fifty eight patients with a total mortality of 78 p r cent dangers of the op ration anasth sia hamorrhage, and meningitis may be decreased by conduction anæsthesia of the second hranch of the trigeminal nerve and the ethmoidal nerve injections around the blood vessels to secure anamia, and good drain

age of the wound secretions

Four of the patients may he considered as cured after freedom from recurrence for five years One patient had a local recurrence after three and one half years and another after five and one half years The majority (53 5 per cent) showed a recurrence within the first year. Metastases are not often ob served but when they occur they are found most frequently in the bones The advisability of remov ing the lymph nodes is difficult to decide because of the rarrity of metastases and the fact that recurrences are usually local Since the glands serve as the recipi eots for the cancer cells mobilized during the opera tion it seems wise to operate on them only after a few days

With regard to irradiation treatment it is still un decided whether the administration of relatively small doses at intervals of several weeks over a long period of time or intensive irradiation is best. How ever the failures of intensive irradiation according to the method of Wintz and the occasional senous ro ntgeo injuries resulting from this method justify irradiation in fractional doses. The authors have ob tained the best results with doses of one third to two thirds of the skin unit dose given with the use of a filter of 3 or 4 mm of aluminum GRIESSMANN (Z)

Ouick, D The Use of Radium and the \ Raysin the Treatment of Malignant Diseases of the Para nasal Sinuses Surg, Gynec & Obst 1926 thi, 46

The proper application of radium and the \ rays in the treatment of malignant diseases requires an accurate knowledge of the histological structure of the tumor, its size and shape its relation to adjacent structures, and the presence or absence of in

The peculiar anatomy of the paranasal sinuses which favors inflammatory processes is an important factor in the causation of malignant growths in these structures Inflammatory processes alter the normal type of tumor growth and influence unfavor ably the protective cellular reactions in the surround ing normal tissues

Quick believes that the complex embryology of the parts under discussion affords an opportunity for tumors to originate from numerous developmental anomalies this explaining the wide range of tumor

types found

The most common malignant growth occurring in the sinuses is carcinoma of the maxillary antrum Squamous cell carcinoma usually represents a second ary invasion of the antrum, but may arise there primarily from lining membrane cells altered or flat tened by a previous inflammatory process

Certain basal cell tumors round cell carcinomata of atypical structure and sarcomata of various types also occur at different points in the paranasal sinuses As a rule, such involvement is only a part of a more

generalized disease

When the cases are seen by the surgeon, the con dition is almost invariably far advanced, having been considered inflammatory too long Biopsy or earlier surgical exploration of the sinuses would result in the

saving of many lives

Radium and the X rays have proved of value in the treatment of malignant tumors of the paranasal sinuses In the experience of Quick, a combination of surgery and irradiation with radium and the \ rays gives the best results. The physical agents are depended upon to deal with the new growth directly and surgery is used to provide access and drain

Treatment with the \ rays alone is not sufficient to control the growth in the paranasal sinuses except, perhaps, in cases of such unstable tumors as lym phosarcomata The \ rays are employed for ex ternal radiation For direct application to or into the growth radium is the agent of choice method depends upon the requirements of the par ticular case, but the irradiation must be applied accurately and uniformly throughout the tumor and in sufficient amount to produce a maximal reaction compatible with viahility of the surrounding normal tissues

For several years Ouick and his associates have employed bare tubes of radium emanation very extensively During the past year, they have found it possible to prepare gold emanation tubes scarcely larger than the bare tubes or glass emanation tubes These have all the advantages of bare tubes minus the beta radiation By means of them it is possible to bury filtered radium emanation obtain a prolonged

intense samma radiation and avoid the severe in flammatory reaction which always follows the use of the beta rays The technique of applying the tubes is described

The internal applications are almost always supple mented by external doses of the X rays or filtered

radium or both

With regard to the choice of method in removing the irradiated tumor tissue, Quick states that the use of the scalpel and curette is bloody and necessi tates too much manipulation of the tissues The old fashioned cautery and soldering irons are clumsy and produce too must heat Coagulation of the entire area by means of the high frequency cautery, and removal with a curette or the high frequency cutting needle gives the desired result with minimal trauma

Metastatic cervical nodes secondary to the various types of carcinoma encountered in the paranasal sinuses are treated in the same manner as meta static nodes secondary to intra oral carcinoma that is hy a combination of the \rays, radium, and

surgery

Of 100 cases seen between 1916 and the present time all but twenty eight were too far advanced for any treatment except palliative measures. In seven of the twenty eight operable cases the eye was re moved and the antrum cleaned out from below Of the total group of patients fifty six are known to be dead twenty two cannot be traced and are assumed to be dead seven were treated too recently for the results to be known and fifteen present no clinical evidence of any malignant disease processes after from nine months to eight years

A R HOLLENDER, M D

#### MOUTH

Brockbank, E. M. Dental Sepsis and Septicæmia Brit W J 19 6 1, 56

Illness secondary to focal dental infection may arise from root abscesses, from absorption of the alveolar process of the jaws with pyorrhora, and from tartar In general there are two types of affec tions caused by dental sepsis-apprexial conditions, such as myositis, fibrositis, neuritis, arthritis, phlebi tis anæmia and myasthænia cordis, and pyrexial affections such as acute throat inflammation, arth ritis bronchopneumonia, and septicæmic condi tions

The author believes that in cases of obscure de bilitating diseases an \ ray examination of the teeth should be made and all diseased teeth should be extracted GEORGE R McAuliff, M D

Ouick D The Treatment of Carcinoma of the Tongue Brit J Radiol 1926 txxi 81

Epidermoid carcinoma of the tongue is one of the most difficult types of malignant disease to treat because of the muscularity of the tongue its rich blood and lymph supply and its mobility the age of the patient and the presence of mixed oral infec-

tion As surgery has not been particularly encouraging even when an almost p riect technique has been used radium and the \ rays have been employed in

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the hope of improving the results For the primary lesion the author recommends preliminary external radiation with the \ rais or radium packs to inhibit the growth of the lesion and prevent the implantation of tumor cell in normal

tissue Strict regard should b paid to oral hygiene Outck introduces into the lesion bare tubes a by o a mm in size and containing i mc which give 132 me his of radium energy in about a fortnight. To prevent the irritative and painful destructive effects of the beta radiation be now employs gold capillary tubes The tubes produce a painful reaction for from four to eight weeks but their use is justified by the end results

If the patient is unable to withstand the radical treatment described milder forms of radiation are combined with surgery Only one cycle is given If this proves insufficient the prognosis is decidedly unfavorable If an extensive slough seems imminent the external carotid artery is ligated with the lingual

and facial arteries under local anæsthesia Operative measures are advocated also for cancer

developing on syphilitic glossitis In the treatment of cervical lymph nodes the author prefers intensive preliminary radiation followed by urgery. He subjects every case immediately to heavy external radiation over both sides of the neck preferably with radium or if this is economically impossible with the \ ray evidence of invasion is noted a second radiation is given as soon as the skin will stand it. As the \ rays act especially on connective tissue and radium acts especially on capillary blood vessels the combina tion of the two produces a more uniform and general ized reaction than either alone When a node is firm but movable a radium pack is added a complete unilateral surgical dissection is done and bare tubes are burned especially where tymph channels have been severed. If the node is fixed surgical dissection is rarely done as the capsule has been perforated Under such circumstances it is wiser to use external radiation alone or to follow with surgical exposure and direct implantation of bare tubes

Of any patients treated by the author slightly over 20 per cent were rendered clinically free from the disease and a considerable number were reheved even though their lives were not saved. In these cases which were unselected the percentage of clinical cures was approximately the same as that obtained by surgery in selected cases. Ouick regards

the \ rays and radium as valuable additions to surgery rather than as substitutes for it CLORGE R MCALLEY M D

#### NECK

Juca \ Hæmorrhagic Cysts of the Neck (Ci ti ematica del collo) Poli lin Rome 1923 xxxii sez chir son

Jura reports the case of a 20 year-old woman who thirteen days after her first delivery about two years and a half ago noticed a swelling about the size of a walnut in the lower part of the left lateral cervical region near the supraclas icular fossa. This growth was soft and elastic and covered with normal slin It did not pulsate It increased slowly and progress nely in size but did not cause any pain or other symptoms By the end of a year it had reached the size of a small egg It was then punctured twice about a liter of dark blood being evacuated Two months later the swelling had regained its former

During the patient's second pregnancy the tumor did not change much in size but after delivers it grew again and there was a pulling pain in the left shoulder on use of the arm Under novocain and thesia an incision was made parallel with the pos terior border of the sternocleidomastoid. The cyst which Iay between this muscle and the trapezius was easily isolated and removed. It was not connect ed with the internal jugular. The transversalis colli artery which was attached to its posterior surface was sectioned

Histological examination of the cyst wall showed that it had the structure of a vein wall which had been changed by endophlebitis causing considerable thickening of the intima The cist was evidently a hamorrhagic cyst due to phlebectasia of the trans versals coll Jura suggests that the weakness of the tern appearing subsequent to the pregnancy may have been congenital

Hamorrhagic cysts of the neck are generally lo cated in the lateral cervical supraclavicular, carotid submaxillary or subhyoid region between the me dian and deep cervical aponeuroses They nevershow true expansive pulsation but if they are connected with an artery pulsation may be transmitted to them

They very rarely cause pain. They are differen trated from solid tumors by their consistency from aneurism by their lack of pulsation from cavernous angioma hy their lack of erectility and from soft tumors and other forms of cysts by the findings of exploratory puncture

The treatment is radical removal of the crist after ligation of the vessel on which it is implanted. In some cases it may be necessary to remove a section of the vein Adhesions may be present but often a plane of cleavage may be found Methods of bring ing about coagulation by chemical agents are dan gerous as they may cause embolism

AUDREY G MORGAN M D

Harburger, A. An Anatomical Clinical and Roent genological Study of the Normal and Abnor mal Hyold Apparatus in Man (Etude anatomique clinique et radiologique de la papareil hyodren normal et anormal chez I homme). Arch internat de larvagol 1925 XVI 033 1047.

The hyoid apparatus is formed by fusion of the scond and third branchal arches and comst sof a ligament stretched between two bone processes. In the newborn infant it is made up of a short styloid process still containing in its awa a remaint of Reichert's cartilage, the stylohyoid ligament two or three times the length of the process which does not have any cartilaginous inclusion, and the lesser cornus of the hyoid bone.

The abnormal form consists of a chain of two three or four bones connected by short ligaments or body articulations. This form is more common than

is generally supposed

The piece on which the styloid muscles are in serted should be called the 'stylohyal segment whatever the length and mobility of the piece which articulates with the temporal bone. The insertion of the stylomaxillary ligament is less constant

The anomalous hyoid structure was forment found chiefly in old subjects because it was discovered by chance at autopsy but chinical and roent genological examinations reveal it in young person. The long styloid process without a trace of articulation which is sometimes found in old persons is different from the hyoid apparatus with segments differentiated and articulated. The anomaly is unlateral in the majority of cares and when it is bulateral is rarely symmetrical. It is best explained by heteromorphosis alone or in combination with arrest of development.

As a tule the anomalous hyord apparatus remains clinically latent. When it does become manife t the thief symptom is painful dysphagia. In the diag nosis palpation of the pharyny is indispensable and should always be practiced before any operation is performed on the tonsils Roentgen examination is also necessary as it is the only method of discovering the condition when it is latent. The picture should be taken in profile with the head extended and the ray centered on the angle of the jaw. One picture should be taken on the right side and another on the lelt The most frequent error in diagnosis is confusion of the condition with a cartilaginous nodule or a cal culus in the tonsil but in the latter case the hard tis sue is found within instead of outside the tonsil and is movible with and enucleated with, the tonsil

Resection of the styloid process always brings about recovery. In spite of the septic condition of the mouth and the great susceptibility of the periphary ageal tissue the natural route seems to be best for the operation. Audrey C Morgan, M.D.

Arneill, J. R. The Great Importance of the Thy rold in Relation to Certain Varieties of Heart Disease Colorado Med 1926 xxiii 111

Arnell emphasizes the importance of early diag nosis and treatment of thyroid disease to prevent the serious cardiovascular complications resulting from abnormal thyroid activity. Levry examination should include a careful inspection and palpation of the neck and when possible, this should be supple mented by a fluorescopic examination of the chest to determine the presence or absence of a substernal thyroid

In this discussion the author deals chiefly with adenomata. He states that in a certain percentage of cases there is a definite association between colloid gotter 1e simple gotter and the subsequent devel omment of adenomata of the thyroid. There are no innocent adenomata sooner or later such tumors become toxic, and if they are not properly treated surgically, scrious cardiovascular and nervous diseases result.

The importance of small adenomata of the thy rold as causes of serious cardiov ascular disease is empha sized. These tumors are often so small that they escape the attention of the examiner while the cardiovascular symptoms are so overpowering that the treatment is directed toward a failing heart, the true cause being overlooded. In the treatment, operative interference is the method of choice. If the patient refuses operation or is an extremely poor risk, the X rays or radium should be used.

ARTHUR L SHREFFLER M D

Castex R and Schteingart, M Cholesterlnæmia and Calcæmia in Thyrold Conditions Their Relation to the Basal Metabolism (I a colester inerna 3 la calcæmia en los estados tiroideos sus relacions con el metabolismo basal) Arch argent de enfrem d apar digesi 19 5 1 2 1.

The authors report their study of the relation be tween thyroid function and the metabolism of cholesterin and calcium as shown by the content of cholesterin and calcium in the blood in cases in which a diagnosis of hypothyroidism or hyperthyroidism was made on the bissis of the bissi metabolism.

The findings of these investigations demonstrate that the internal secretion of the thyroid does not influence the cholesteria content of the blood in the slightest. The authors therefore conclude that the hypocholesteria. The authors therefore conclude that the hypocholesteria. The authors therefore conclude that the hypocholesteria. The authors therefore the precision and hypocholesteria. The hypocholesteria and hypocholesteria of the hypocholesteria and hypocholesteria. The hypocholesteria are the hypocholesteria and the hypocholesteria and the hypocholesteria and the hypocholesteria. The hypocholesteria are the hypocholesteria and hypocholesteria and hypocholesteria.

As the calcium content of the blood also was found to be uninfluenced by thy roid dysfunction, the authors conclude that the changes in the quantity of calcium in the blood in thy roid disease may depend upon some factor related to the vagosympa thetic system

John W Bresyna M D

Simpson W M Three Cases of Thyrold Metas tasis to Bones With a Discussion as to the Ex istence of the So called 'Benign Metastasizing Gotter Surg Ginec & Obst 19 6 du 480

I rom a study of case reports Simpson concludes that the observation of supposed metastases of nor

mal thy roid ussue made by Cohnheim and by Morns have been widely quoted and have influenced many others to report similar cases. Cohnheims report of a case of simple colloid gotter with metastassic contains abundant evidence of primary carcinomans of the thyroid gland. In the case reported by Morns there was no histological or other examination of the thyroid gland.

In most of the collected cases the diagnosis of benign metastasizing goiter was based upon the clinically benign appearance of the goiter and the benign microscopic appearance of extirpated metas

tases

Metastases of thy rod carcinomate vary greatly in their microscopic appearance and may assume the structure of normal thyroid tissue beingn thyroid adenomata or simple colloid gotter. Such serondary growths may function in the same manner as normal thyroid tissue.

A microscopic examination of the thyroid gland was made in only twenty inne of seventy seven similar cases collected from the literature and in many of the reports areas of undoubted carcinoma were described. Autopsy was done in only 33 per

cent of the reported cases

The belief of some surgeons that these distant
metastases represent aberrant thyroid tissue has no

basis in fact

The menatases in cases of so called beingin metas tasking goiters show the same striking predilection for bone that characterizes secondary growths of thyroid origin which show a frank caracinematous structure. The vertebral bodies and the crainal bones are most frequently involved. Pathological fractures of the humerus and femur are common The osseous metastases frequently show fluctuations in size during mensitruation and pregnancy. Pulsation is a common finding.

Most of the thyroid metastases to bone were diag nosed clinically and roentgenographically as primary sarcomata. Metastatic new growth of thyroid prostate breast adrenal or renal origin should be considered in cases of skeletal new growth

The reports of most cases of beingn metastasizing gotter were published soon after the discovery of the metastases with a beingn microscopic appear ance and before the outcome of the condition was because it is a sound to be a

Two cases from the University of Michigan hos pital showed osseous metastases of microscopically benign tissue associated with climically negative goiters. One was reported soon after operation as instance of metastasis of normal fetal thyroid tissue. Both patients subsequently showed chimical evidence of undoubted carrinoma of the thyroid gland and died after eighteen months and two years respectively.

Many cases are recorded in which the micro scopical examination of tissue from the metastasis revealed normal thy roid structure while histological study of tissue from the thyroid gland showed un doubted areas of carcinoma Abundant evidence indicates that there is no such entity as benign metastasizing goiter ' The use of the term should therefore be abandoned

TAMES C BRASWELL M D

Blum F Studies on the Parathytoid Glands Their Secretion Their Importance for the Organism and the Possibility of Substituting for Them (Studien ueber die Enthelkeerperchen ihr Sekret ihre Bedeutung fuer den Organismus die Moeglich kett ihres Ersatzes) 1923 Jena Tischer

This monograph is the report of a series of in vestigations made on several hundreds of animals

during a period of more than ten years

The parathyroid glands secrete a hormone in ternally which becomes activated into the complete hormone only outside the gland and then circulates in the blood plasma. The blood cells are free from hormones. During lactation the parathyroid hormone masses into the mill.

Through their hormone the parathyroid glands exert a definite influence on a large number of organs acting as a protective mechanism against a con stantly threatening auto intoxication. When their protective influence over the central nervous system is deficient tetany and occasionally ballucinations occur In the bone and tooth structures parathy roid deficiency is evidenced by retardation of growth and roalformations in the blood by a marked de crease in the calcium content of the serum and in the external eve by inflammatory and trophic de generative disturbances When the kidney is in sufficiently protected there is an increase in the resid The parathyroid hormone protects ual nitrogen also the hæmatopoietic apparatus the thyroid gland and other organs

All of the organs so protected are injured when the integrity of the parathy rod glands is destroyed but if the body continues to be upplied by the bormone from a remnant of the parathyrod glands or by protective feeding (milk or blood) repletion occurs in the endangered organs according to their power to attract the protective bodies a power which depends upon their suscensibility to intovication

In mature animals reserve substitution products are mobilized in the body when the parathyroid hormone is decreased but in immature animals this does not occur In the young therefore any decrease in the function of the parathyroid glands causes marked weakening. During nursing the mother provides the supply of hormone for the child from the protective substances in her milk.

These findings provide a new point of view with regard to the nature and treatment of certain dis eases STARL (Z)

Iglauer S The Treatment of Chronic Laryngo trachael Stenosis Ohio State M J 1926 XXII 218

Iglauer is of the opinion that stenosis of the larynx is usually secondary to ulcerative processes within the larynx. In adults paralysis of the recurrent laryngeal nerves and ankylosis of the arytenoid

cartilages are other causes. The nature and extent of the stenosed area can be determined by direct and

\ ray examination

As chronic canoula carners are more comfortable if they wear a vulvular speaking cannula Iglauer has made a cannula that opens on inspiration and closes on expiration Obstructive lesions should he removed and prolonged treatment with metal or rubber dila tors should he given The prognosis for ultimate functional recovery is favorable

JAMES C BRASWFIL M D

Ferreri G Cancer of the Larynx in Woman (Le cancer du larynx chez la femme) Arch internat de laryngol, 1025 xxxi, 807

Cancer of the larynx occurs about six times as often in men as in women Formerly many brilliant results from operation were reported because an er roceous diagooss of cancer was made in cases of syphilitic gummata, tuberculous vegetations, pachy dermia of the larynx, and beingen new growths The difference in the incidence of cancer in the larynx in the two seves disproves the theories of contagiousness and heredity of malignant tumors. There is nothing but hypothesis to explain it. As the majority of lary ngeal cancers occur in syphilities the most prohable theory is that syphilitie lessons in men are exposed to irritation by alcohol, smoke, misuse of the voice, dust, and irritating vapors more frequently than those in women.

The age incidence of laryngeal cancer is about the same in men and women. Forty five per cent of the subjects are between 50 and 60 years of age and 23 4 per cent between 40 and 50 years, but the condition has been found as early as the twentieth year.

The diagnosis should always be made by examina tion of a piece excised from the tumor since roentgen

treatment seems to have no effect on spinocellular cancer but is effective on the basal cell form. Most of the cancers of the lary nx observed in women are extrinsic rather than intrinsic

In intrinsic caocer, lavyingofissure is the method of choice but if the epithelioma has passed beyond the vocal cord and affected the arytenoid cartiages or the crico arytenoid articulation or has crossed the anterior commissure and invaded the other side, total extirpation of the larying sindicated. The author disapproves of hemilary ogectomy because it is associated with the danger of local recurrence and leaves the tissues in a condition of permanent irritation due to the presence of a fistula

In extrusic cancer the treatment of choice is radium irradiation preceded by tracheotomy to prevent suffocation. The radium should he applied directly to the lesion by the natural route if possible or through an operative fistula (hyoth rotomy). The author cites Sargnon's case of retro croom arytenoid spinocellular epithelioma to a woman of 72 years of age. Fifty milligrams of radium were applied in a rubber container for six hours and then, after tracheotomy, thyotomy and section of the epiglottis were performed. The patient was alive two years after the operation.

He reports also three cases of his own One of his patients died of an inoperable cancer of the larynx and one recovered after total laryngectomy. The third recovered after tracheotomy followed by radi um treatment but has been treated too recently for the final results to be known.

Ferrers regards roentgen treatment as more dan gerous than radium treatment because it breaks down the tissues The absorption of toruns from dis integrated tissue is more harmful to women than to men AUDRES OF MORGAN M.D.

# SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS CRANIAL NERVES

Harris W and Newcomb W D A Case of Pontine Glioma with Special Reference to the Laths of Gustatory bensation Proc Roy Voc Wed Lond 1926 xix Sect Neural 1

The patient whose case is reported was a 14 year old boy whom Harris considered from the point of view of intellectual ability an excellent subject for careful guistatory examinations. At the time of his idmission to the hospital he presented a typical pointine syndrome with paralysis of the body and circumites on the right side and of the face on the left wade. The characteristic is the property of the motor branch of this nerve and pirtral fifth nerve hypes thesia to light touch on the left side.

The patient died about two months after his admission to the hospital following a continuously

downward course

lathologically examination made by Newcomb revealed a tumor growth extending in the left side from the pons to the red nucleus and down to the lower border of the clive with a slight extension across the millium.

The authors were interested especially in the disturbance of taste which was complete both in the front and back of the tongue on the right side but on the left lide was apparent only on the front of the

ongue

In Harm opusion the gustatory disturbance is explained by Augeottes theory that the gustatory nucleus receive index from the fifth nerve and pars intermedia as well as the glossopharyngeal and by the hypothesis that the function of the fifth nerve in the phonomenon of faster is the maintenance of common sunsition while the nerve of Wissberg four tions in a more specific capacity the two to gether combining to produce the sensation of taste

Fimme W. The Glandular Treatment of Pituitary
Tumors and Hyperplasias Itlantic M. J. 1926
2213, 427

(rant F C The Results In X Ray Treatment of Early Pituitary Lesions Atlantic W J 1926 xxx 430 Frazier C II The Surgical Manadement of Pitui

Frazier C II The Surgical Management of Pitt tary Lesions Atlantic V J 1926 xxix 435

TIME distinguishes between simple hyperplasias of the pituitary and true pituitary neoplasms which he believes can be done by studying the history of the case. For the former he advises whole gland

treatment given in combination with hypodermic injections of pituitrin other glandular extracts iodides, etc. depending upon the case

(Ryradvocates the use of the Yrava and radium cases of primary tumors of the pituitary gland in which surgical stillar decompression is not indicated immediately to save vision and also as postoperative treatment in cases treated surgically. He cites seven cases with improvement of headriche they sual fields and the general health following such treatment

FRAZIFR describes his technique for the transpondal approach to the pituitary and advises operative interference in cases in which a pituitary adenoma has reached a size sufficient to affect vision the outlines a very eareful pre-operative and post operative routine Levy M. Davporr, M.D. Levy M. Davporr, M.D.

### SPINAL CORD AND ITS COVERINGS

Bréchot Idiopathie Incontinence of Urine and Laminoctomy (Incontinence essentielle dunne et ianunectome) Bull et mêm Soc nat de chir 1925 li 896

Brechot has performed six laminectomies for idio pathic incontinence of usine and one for hilateral hollow foot. One of the patients with incontinence had also a hollow foot and a permanent flexion con tracture of the great toe. In none of the cases was there a family history of congenital malformation or The patients were all of normal nervous disease intelligence. The roentgen picture showed the lum bosacral region normal in only one case. In the others there was a median fissure of the fifth lumber or first sacral vertebra and in two cases the lamina did not meet on the same level and were superim posed at the ends In another case the lamina were not as long as normal and the vertebral canal was therefore slightly smaller than normal. These were cases of false spina bifida occulta

The technique of laminectomy was simple the operation consisting in a median incision dissection of the lumbosicinal muscles and resection of the spinous processes and lamin of the first sacral or fifth lumbar vertebra or both. This is much simple than the laminectomy recommended by Delbet for adults which Brichot does not think should be practiced on young children.

The child with a hollow foot and contracture of the great toe was completely cured. He has not unnated in bed once since the operation his foot is nomal and the contracture of the toe has di-appeared. The child with a double hollow foot was also greatly benefited. The others were benefited but none of them was curred completely.

I certain amount of caution is necessary in judging the indications for operation in these cases since in some of them recovery occurs spontaneously as the subject grows older, and up to the age of 10 to 12 vears the roentgen picture of spina binda occulta is not absolutely reliable

In the discuss on of this report OMBREDANNE said that he did not regard the difference in the level of the laming as of much significance but believed that ch ef importance was to be ascribed to the fact that as the posterior vertebral arches were shorter than normal they did not form the would curve but approached each other by the shortest route and were connected with each o her hy a fibrous layer this resulting in a flattening of the spinal canal in 15 anteroposterior diameter. He doubts the waldom of operating for incontinence or urine but has operated for pain incontinence of faces and club-foot with good recults

Brechot replied that Ombredarne was consider ing cases of more pronounced spina bifida occulta Brechot found the spinots processes normal in his cases and the fibrous thickening he dis covered was in the dural sac there was no fibrous membrane connecting the laminæ Brechot does no advocate routine operation for incontinence of unne but thinks that when the roentgen picture shows malforms ion of the neural arch or fissure laminec tomy is justifiable AUDREY G MORGE M D

#### SYMPATHETIC NERVES

Bonanı G Late Results of Perifemoral Sympathectomy in the Treatment of Varicose Ulcer (Risultati lontani della simpatectomia perifemorale nel trattamento dell'ulcera vanco-a) Chir d'or gari di morimeno 19 3 1x, 569

Bonani reports seven cases of periarterial sym pathectomy for varico-e ulcer in all of which the lesion had persisted for from seven to twenty years and had resisted the usual treatments. The Wasser mann reaction was negative. In every instance roentgenograms of the leg showed the bone lesions which have been described as characteristic of severe

The operative technique vas that recommended by Lenche The artery wa, exposed in the middle third of the thigh beginning at the apex of Scarpa s triangle where the collaterals are tew. The technique is difficult and in old patients with atheroma of the arteries and periarteritis great care is necessary. Con sid-rable time is required to ligate the small col lateral. After the exposure of the arters it is not dif ficult to strip the adventitia for a distance of from 10 to 12 cm

In all of the author's cases healing occurred by first intention. In no instance was there any secon dars hamorrhage The immediate results were vergood. Complete cicatrization of the ulcers occurred in four cases and partial cicatrization in two In one case the treatment had no effect

Re-examination of the patients a year and a half after the operation showed that the complete cica trization which occurred in four cases was perma

nent in only one in the others, the ulcers recurred after fifteen days, three month, and five months respectively. The result was temporary also in both of the cases of partial cicatrization these findings and the relative difficulty and danger of the operation Bonani concludes that the indications for penifemoral sympathectomy for varico-e Licer are very limited Appen G Morgan M D

Coman F D Observations on the Relation of the Sympathetic Nervous System to Skeletal Muscle Tonus Ball Johns Hopt as Hosp Balt. 1926 XXXVIII 153

In summarizing the literature on the relation of the sympathetic nervous system to skeletal mu, cle tonus Coman states that stimulation of the sym nathetic fibers to skeletal muscle has vielded only egunocal and unconfirmed results. Most observers and that elimination of the sympathetic fibers with preservation of the cerebro-pinal innervation of skeletal muscle has no effect on the muscle tonus and there is general agreement that definitive loss of tone tollows interference with the cerebrospinal re-Lex ..rc

In the cat and dog the somatic nerve supply of the toreleg in relation to the thoracolumbar sympathetic outtow offers a unique anatomical hasis for the chmination of one type of innervation without disturbance of the other. The first ramus communicans albus leaves the cord with the first thoracic root and the last of the thoracolumbur outflow leaves the cord with the third or fourth lumbar root. The secretors and vasomotor fibers for the forelimb leave from the tourth to ninth spinal roots incluive (rarely from the third) the maximal effect being produced hy stimulation of the seventh Stimulation or section of white rams higher than the fourth thoracic caules only secretory or smooth muscle changes in the head (particularly in the eye) Hence the ventral roots of the entire hrachial plexus including the first or second thoracic may be sectioned without interfering with the sympathetic innervation to the torelimb whereas ection of the third to the tenth thoracic roots eliminates the sympathetic innervation of the foreleg without disturbing the comatic inner

From experiments on thirty nine cats and seven dozs Coman draws the following conclusions

1 Stimulation of the sympathetic innervation to the foreleg fails to cause any tonic reaction

2 Complete removal of the sympathetic to the foreleg does not influence the normal development of

tone either before or after decerebration 3 Complete removal of the somatic motor supply to the foreleg is followed by total abolition of tone

both before and after decerebration Since none of the conditions essential for proof of

the sympathetic innervation of skeletal muscle could be observed the conclusion is drawn that there is no relation between the sympathetic nervous system and the development or maintenance of postural tone in the cross-structed muscle

The author states that his experimental results seem in accord with Sherrington's concept of sheletal muscle tonus as simply a postural refux under cere brospinal control. None of the findings indicates the necessity of a distinction of elements in tonus such as the contractile and plastic elements postulated by Langelsan and there is no support to the theory of a dual innervation by sympathetic and so matic nerve elements. Wattra & Buyers M D

Bransburg The Histoputhological Changes in the Heart Muscle Following Sympathectomy (Dipathologisch histologischen Vernderungen des Herz musicis nach Sympathektome) Russlags klus 1925 19 221

The effect upon the heart of a sympathectomy which cuts off the entire innervating cardax perushas not been reported in the literature. The author attempted to solve the problem experimentally by experiments on twenty dogs and twelve rabbits. Unlateral or hilateral sympathectomy was done and the heart muscle eximined at periods ranging from one to one hundred and twenty days. The following conclusions are drawn.

1 Unlateral and bilateral terrical sympathections on rabbits and tagosympathectomy in dog produce the following changes in the first few days following the operation dilatation of the blood wessels hyperamia cedema intransuscular round cell infiltration and an initial stage of muscle structure followed by its di appearance. These changes and cate a disturbance of the enrulation and muscle naturous and parently mutous degenerations.

- 2 For a longer time-up to the fourth postoperative month-the degenerative changes in the cardiac muscle become more pronounced. The grant lation the absence of cross strations and the longtudinal fibrillation indicate profound nutritional disturbances and degeneration of the muscle elements. At this stage hyperarmia and ordems are no longer present.
- After unilateral sympathectomy in the abbit and sagesympathectomy in the dog the degenar two muscle changes in the heart are localised according to the unievation. After operations on the safe the miscle changes occur in the neighborhood of the place across whereas after operations on the right safe they occur in the region of the tright safe they occur in the region of the first second and third platuses and after bilateral operations does degenerate phenomena are observed every toos degenerate phenomena are observed every
- 4 Resection of the depressor nerve on the left side in rabbits and dogs causes insignificant changes in the nall of the norta and in the muscle in the eigen of the first and second plenuses (see ss supplied by the branch of the depressor nerve). No muscle changes are observed in other parts of the heart.

5 The results obtained from mestigations following sympothectomy in animals indicate the trophic importance of the cardiac branch of the sympathest, the necessity of interpreting the indicators for sympathectomy in man with greater esterand the fast that resection of the depressor nerve has apt rently the same therapeutic and operative effect as sympathectomy.

# SURGERY OF THE CHEST

#### CHEST WALL AND BREAST

Pain in Cancer of the Breast Its Clinical Significance with Special Reference to Bone Metastases Am J W Sc 1926 clexi

Pain is rare during the early stages of mammary cancer. Its presence is usually an indication that the carcinoma has undergone secondary degeneration with reactive inflammatory changes Deep pain and radiating pain usually indicate extension of the Skeletal metastases cause nam of wide spread distribution

The incidence of skeletal invasion in sixty seven cases of breast cancer admitted to the Cancer Division of the Montefiore Hospital, New York City was

746 per cent

In the early stages of skeletal metastasis the pain may be mild and inconstant with a tendency toward remission and periodicity which particularly in the ab ence of recurrent breast symptoms, may be de ceptive to those unfamiliar with this type of invasion

Recovery of function in cases of skeletal metastasis may be due to subsidence of the inflammatory reaction and is only temporary. The diagnosis is made by frequent physical and roentgen ray exami nations

The nuthor believes that in advanced cases of can cer of the breast, radiotherapy is more effective than other methods of treatment and suggests as a prophylactic measure, postoperative radiation not only of the breast but also of the skeletal regions which are most frequently invaded

WILLIAM E SHACKLETON M.D.

Richards G E 🛝 Rays and Radium in the Man agement of Breast Carcinoma Canadian M Ass J 19 6 xv1, 358

There is a great deal of evidence to support the theory that the \ ray kills cancer cells directly The cells of the hasal cell epithelioma or lympho sarcoma are usually easily influenced As the epithelial cell approaches the squamous type it becomes more resistant A squamous cell epi thelioma requires several times the dosage required hy a basal cell tumor. In tumors with the cylindrical lorm of cell the margin of safety between the dose necessary to destroy the cancer and that which will destroy the normal tissue is reduced almost to the vanishing point

Recent experimental work indicates that some, if not most of the effects produced by the X rays are due not to the direct destructive action of the rays upon the cancer cells but to an indirect effect produced in the normal hody cells It appears that this is somewhat analogous to an immunity effect

In experiments on mice erythema doses of rays were applied to one groin and cancer grafts then implanted in both the rayed and the unrayed group A tumor resulted from five of six of the inoculations in the protected area but from only one of the six made in the irradiated area

Heavy destructive doses of the rays produce fibrosis of the lung and destroy normal cells or lower their resistance. A minimum erythema stimulates

normal tissue to resist the cancer cell

The \ rays may be made to cover adequately a much larger area than the quantities of radium which are usually available to the average physician and should be used in the majority of cases for both efficiency and economy

In all prophylactic treatment the limit of voltage used upon the chest wall or the lung should be rao ky and over the axilla and supraclavicular areas.

In practically all cases in which radium is emploved postoperatively the author uses the X rays also He ands that three quarters of a full dose of both radium and the \ rays can be administered simultaneously

Radium is of value chiefly in the treatment of ac cessible nodules in which an intense effect is desired In the pre operative treatment of single or multiple small nodules it may be used with the Y rays in the form of surface applications or packs or buried plat inum needles of low potency and high filtration. In postoperative cases small skin nodules may be treated by surface npplications plaques, packs, or platinum needles on wax moulds. Nodules in the axilla may be treated with needles or packs supraclavicular nodules the use of packs in con junction with the \ rays is indicated HOWARD A MCKNIGHT M D

### TRACHEA, LUNGS, AND PLEURA

Forestier J Roentgenological Exploration of the Bronchiai Tubes with Iodized Oil (Lipiodoi) Radiology 19 6 v1 303

After having proved the harmlessness of lipiodol injected into the bronchial tubes of animals, the author in conjunction with Leroux, used it in clini cal cases and succeeded in outlining the bronchial tree in roentgenograms to the smallest ramifications A part of the oil is expectorated soon after its injection but most of it is absorbed gradually and elimi nated in the course of several weeks

Lipiodol may he introduced into the bronchi hi transglottic injection with the aid of a long curved catheter by the subglottic method which requires puncture of the intercricothyroid membrane or through the hronchoscope or lary ngoscope

Before its injection intratracheal anaesthesia is in duced with novocain solution. From 20 to 40 cc m of the oil warmed to body temperature, is then allowed to gravitate into the part of the ling under investigation the patient being placed in such a position that the part to be studied to as low as possible. Papid exposures made in different positions of stereoscopically immediately after the injection record the localization of the oil and any pathological changes present. No more than one or the lobes of the lung should be explored at one time. The indications for the method are the following

1 Cases in which a deviation stricture or other abnormality of the trachea is suspected

2 Cases with a long history of pulmonary disturbance and chronic expectoration in which the diagnosis between phthiss and bronchicciasis is

- difficult
  3 Cases in which the presence of a cavity in
  communication with the bronchi is indicated by
  comica
  - 4 Cases of thoracic fistule of unknown origin 5 Cases in which climical laborators and ordi

5 Cases in ablen clinical laborators and ordinary 1 ray examinations do not lead to a certain diagnosis

The method gives valuable information by our lining the tractea and broach showing obstructions from pressure due to intrathorist tumors and localizing existes in communication with the broachal tubes but its greatest value his in the diagnosis of broachistists. Whether this condition is of the cylindrical or accular vinets it is easily demonstrated.

After therapeutic pneumothers: exploration with lipsodol may show whether an afterent part con tains lung or is merely membrane. It serves also to control the amount of lung offance.

In more than so injections no severe accident has occurred. The method is contra indicated honever in the cases of febrile tuberculous patients and after hamoptysis its use should be delaxed for several day. In cases of pulmonary agargene and anaerobic injection subglottic injection of sodized oil is mady, also.

Though the procedure has been employed mainly as a diagnostic aid it has been followed occasionally by marked improvement in the chinical course of cases of bronchiectasis and lung cavities. In some instances, the profuse expectoration has been decreased for month.

\*\*Docum Harking W.D.\*\*

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Moller P F and Von Magnus R Investigations of Bronchial Affections by Means of Iodine Preparations Jodumbrin and Expided 16th med Scand 1945 Jun 174

The authors have injected sodized od into the bronch in twenty three cases. Distinct roentgeno grams were obtained but in not all of the cases were the bronch filled. Lipoded Lafay a thick yellowish of with an order content of 0.5 4gm per cubic centimeter. has no local irritating effect and is absorbed in such silect amounts that it produces only a very

mild iodism. In most cases the authors used jodum bun which is as pure and as well tolerated as lipiodol more fluid easier to inject, and produces a better shadow.

In the casts of patients with a tendency to cough a teapoponful of a ½ pre cent solution of sympus code for fortior is given one half hour before the injection. Local anesthesia is induced by snabbing the phatynic and largary three times at intervals of five minutes with a zo per cent solution of cocaine containing a few drops of 1 1 000 addrepailm and synging the larnar and the upper tracheal mucous membrane with 3,0 cm of this solution. For the oil injection, a 5 ccm largareal syngie, with a cannula attached is used. The cannula is 15 cm long and has a caliber of 2 mm.

The cannuls guided by the lary agoscope is into duced through the rima glottide, and the oil heated to 37 degrees C is slowly injected along the antenur trachesi wall. The patient heathes deeply and quietly and insofar as possible the injection is made during imperation. The quantity estimated as neces sary to fill one lung is between 0 and 30 c cm. The innerctions issually recouse from three to five munities.

The sodized oil flows readily in the bronchi probable because of the heat of the body. During and immediately after the injection the oil is guided to the part of the lung to h studied hy placing the patient in the proper position. When the patient coughts or zetches the oil tends to escape into the respipagus and stomach.

the party of the p

Immediately after the injection a transitory teched rile is undishe and coughing is apt to occur. The pattent is urged to suppriss coughing. A few deep hreat!s will usually overcome the irritation. The next injection may then be given. No dispance or other disturbance of importance has been noted

The dry after the injection expectoration is often considerably increased but in a few days the spattum undit falls below the previous quantity. The first trace of todane appears in the unine ofter about it hours. The exerction reaches its maximum in twenty four hours, and then gradually fulls and after at division of the previous division of the previous division and interest of the previous division and the second of the previous division and the previous division and the second of the second of

In the cases reported there were no unfavorable secondary reactions with the exception of a fewer of 38 deg ees C in one case and cory as and head-che in another. If the cannula used for the injection is too short the oils apt to enter the exophagus.

Injection of the oil by puncture of the circo this road membrane is associated with damper as it has been known to cause the formation of ... hamatoms on the po terior tracheal wall perlayinged edema and detachment of the tracheal puncous membrane

The use of a bronchoscope in one case was of no special value and caused discomfort

The roentgenogram should be made as soon as possible after the injection of the oil After from twenty to thirty minutes the picture of the bronchial tree becomes blurred as the result of ejection by coughing and absorption

The method described is of value to obtain in formation with regard to anatomical variations in the bronch, certain pathological changes in the bronch and lungs which are not shown by ordinary centgenograms dilatation of the bronch and rive of firstule with possibly a bronchial connection the location of the cavities, and the extent of the infiltrations.

The authors have seen beneficial effects from 10 dized oil in a case in which the results of routine todine therapy over a long period of time were un satisfactor. Indine can be given in considerably larger doses in oil without risk of unfavorable secondary reactions

Pleural injections of doses as small as from 1 to 2 c cm in cases of pleurisy caused long continued rises in the temperature

WALTER C BURKET M D

Packard G B , Jr Empyema in Children Colo rado Med 1926, xxiii, 85

With regard to the treatment of empyema au children, the only surgical measure indicated during pneumonia is the aspiration of fluid to relieve pressure on the beart and opposite lung. The anex thesia of choice is local ana sthesia but introus oxide oxygen an eithers and indicate by an expert is very satisfactory. Ether is to be avoided.

The closed method of treatment was used in twenty five croses the time of drainage averaging twenty seven days, and the open method (nb resection) in five cases the time averaging fifty four days. The closed method has many advantages when carried after care can be given. The after treatment consists in irragation of thempip ema cavity with Dakin's solution twice daily and regular aspirations of the accumulated secretions at intervals of two or three hours with repeated injections of Dakin's solution. There was only one death Of the complications.

There was only one death. Of the complications ontus media was the most common and acute nu phritis the next most common. There was one case each of invostits, endocarditis, erysipelas, chicken pox, meningitis, and subphrenic abscess.

RALPH B BETTMAN M D

# SURGERY OF THE ABDOMEN

#### ABDOMINAL WALL AND PERITONEUM

Hooniz A. R. Muscle and Fascia Suture with Relation to Hernia Repair. Surg Greec & Obst 1936 Alm. 22

In the dog the internal oblique muscle and Poupart's higament unite firmly when they are brought into apposition by suture even when considerable tension is greated on the sutures.

The formation of a ran surface by the resection of a small strip of the edge of the internal oblique tend. to make the union firmer than usual

When the fascia lata of the dog is sutured to the underlying muscle these structures unite firmly provided the intervening layer of the arcolar tissue has been removed

Microscopic sections show that this union of muscle to fascia accomplished by the growing to gether of the connective issue fibers of the plane sheet of fascia (Poupart's ligament or fascia lata) with the fibers of the epimysium perimysium and endomysium Maccos Et Horster VI D

#### GASTRO INTESTINAL TRACT

Haudek The Rehability of the Gastric Niche in the Diagnosis of Ulcer (Aur Frage der Verlaesslichkeit der Mageumsche iner die Ulcusdiagnose) Fortschr a d Geb d Roenigs istrakten 1925 xxxxx 56 651

In the recent literature the reliability of the gastin inche in the diagnosis of ulcer has been questioned. Haudels regards it as an entirely reliable sign of ulcer when it is associated with the complete character istic syndrome. The diagnosis is certain however only when the ulcer is situated in the middle portion of the stormet.

Haudek discusses a few cases in which even though an ulter is not found at operation, such a lesion may be present. Not uncoramonly an ulter is overlooked during operation. When the findings are apparently negative the gastrocolic mentum should be split and the posterior wall of the stomach examined.

Mention is made of cases reported by Simon and Misschul in which an apparent riche was produced by processes outside the stomach such as adhesions everting traction on the serious side of a healed ulcer Haude, calls attention to the diagnostic mistake in these cases and interprets the pictures a stypical contrast filling of the disocency journal flexure within the gastne shadow. The error is attributed to the fact that because it is a stration of the picture was not extinated to the state of the stration of the state of examined in this position the gastne, and miestinal shadows could have been separated by pressure Haudek denies the presence of a miche also in All schul's case in which a niche was simulated by a tu mor in the tail of the pancreas with a focus of calcification

Senous difficulties arise undoubtedly in the presence of a discriticulum of the duodenojepunal flexure. In this condition as in cases of true gastnedisertic tha simulating inches mistakes may be made by even expensed examiners.

With regard to reports by Reiche Petren and Edhinger the author states that niches are not pro trusions and that there is no premountory symptom of perforation Perforation is extraordinarily rare in niche formation because of the adhesions around the niche

It is easy to avoid mistaking a niche for an atype cally situated dome of the left colonic flexure and for a pseudo niche in the angle which is nothing more than a normal hilling of the lesser curvature be theen two powerful peristal'ire constrictions

The question as to whether a differentiation be tween uiter and carcinoma is possible Haudel, answers affirmatively with regard to primary carcinoms situated in the descending portion of the stomach but admits that it may be uncertain when an uicer shows malignant despensation. He includes in his article a table of the roentgenological differences between the two lessons. It is admitted that in certain cases the differential diagnosis was not carly but to show that a correct diagnosis was made early ally Haudek reports statistics demonstrating that a carcinomon us never found when a diagnosis of uicer was made and an uiter was never present when the diagnosis was a carcinoma. Roentitute 32.

Bufalini M Rational Surgical Treatment of Gas tric and Duodenal Ulcer (Sul trattamento chu urgeo razionale dell' ulcera gastrica e duodenale) Arch etal di chir 1925 xiv 641

Bufalim reviews the results of the various methods of operation for uler from simple gastro enterostomy to the most extensive resections and concludes that there is no method of treatment that furnishes an absolute guarantee against recurrence or the de velopment of peetic uler.

When resection was first performed numerous statistics were published which showed a much lower percentage of peptitu liters after this operation than after simple gastro enterostomy but as the late results have become more evident the difference is not nearly so great

In the attempt to prevent recurrence and peptic ulcer surgeons have passed from simple resection of the pylorus to resection of the antium and then to subtoid and even total resections of the stomach with the idea of eliminating the hydrochloric acid which is supposed to be the cause of peptic ulcer But you Haberer found peptic ulcer in two persons in whom extensive resection had brought about com plete absence of free hydrochloric acid

In view of this fact and the further facts that ex tensive resections have a mortality considerably higher than that of gastro enterostomy that they suppress not only the hydrochloric acid but also other necessary constituents of the gastric secretion and that they often cause scrious divestive disturb ances Bufalini regards the simpler and more con servative operation as preferable unless there are special indications for extensive resection

AUDREY G MORGAN M D

Sole The Indications and Technique of Gastrec tomy (Indicaciones y técnica de la gastrectomía) Irch argent de enferm d'apar digest 10 5 1 106

In describing his method of performing gastrec tomy the author makes no claims to originality but states that he has perfected the pre operative and postoperative care of the patient and his operative technique to such a point that the mortality of the operation has been reduced close to that of a simple gastro enterostomy He therefore feels justified in suggesting a further widening of its field of indica

With regard to the pre operative care he discusses the lowering of hypertension, the use of tonics digalen, polyvalent vaccines physiological saline solution glucose and insulin lavage oral and dental care breathing exercises and blood transfusion

Following the administration of morphine and scopolamine local anæstbesia is induced by the injection into the gastrohepatic omentum of 10 c cm of I per cent novocain

The operative technique is shown in ten illustra Complications discussed include hepatic dysfunction acute gastric dilatation and partial occlusion of the orifice of anastomosis by spasm malposition and traction In the author's cases these complications are rare

The most important part of the report is the dis cussion of the indications for gastrectomy Gas trectomy is now considered the operation of choice

for ulcer

Gastropylorectomy is indicated in all cases of ulcer of the lesser curvature both pyloric and juxtapy loric in which the process is limited the inflamma tory inhitration is not too extensive the lesion is not too firmly adherent to the pancreas and the general condition is not unfavorable

Sole performs it also for ulcer at the point of gas tro intestinal anastomosis (gastrojejunal ulcer) and in cases of duodenal ulcer. In cases of diverticulum of the duodenum in which exclusion of the duodenum is desired, an antropylorectomy is preferable to simple exclusion. It is of advantage also when in cases of supramesocolic or inframesocolic stenosis of the duodenum with dilatation difficulty is experi enced in effecting a satisfactory duodenojejunostomy

Contra indications to gistropylorectomy in ulcer are

Hæmorrhage In cases with hæmorrhage, oper ation may be considered only when there is repeated bleeding or the pulse is not above 100 and the ten cion is good

2 Inflammatory conditions When inflamma tion is present it may be prudent to await regression of the process and a more favorable condition before

operating

Perforation into the free peritoneal civity eight hours previously. In cases of perforation into a closed cavity with perigastritis it is well to wait at least sixty days before doing a gastrectomy

With regard to the treatment of cancer the author urges a radical procedure and favors an exploratory laparotom, in order to get the patient operated upon early enough for radical resection

IOHN W BRENNIN M D

Eastmond C Gastro Intestinal Infection Its Roentgen Manifestations Brit J Radiol 1026

Roentgenograms of the stomach frequently show usually on the lesser curvature, immediately behind the pylorus more or less localized filling defects which are manifestations of localized infections These defects are seldom over 11/ in in extent. The infections are characterized by congestion, round The affected part cell infiltration, and fibrosis shows minute points of barium retention or local areas of exaggerated banum density or presents a rigid tubular aspect with a change in the peristaltic waves

Non ulcerative deformities of the duodenum are usually considered to be the result of adbesions secondary to pericholecy stitis but the author be heres that infection of the duodenum is commonly coincidental with infection of the gall bladder and that the changes noted in the roentgen examination are due to changes in the duodenal wall itself Ad hesions may he the result of a periduodenitis as well as a pericholecystitis. The roentgen findings are in constant irregularities of form due to the chronic round cell infiltration and fibrosis When the in fertion involves the second portion of the duodenum the rugal markings may be obliterated constrictions may occur or the emptying rate may be changed

Infection in the terminal ileum may produce rigidity and a change in the motility of the part which is demonstrable roentgenographically ruge may be flattened and there may be a variable irregularity of form and contracture of the lumen The pathological basis is the same as that in the stomach and duodenum Incompetency of the ileocecal valve is a frequent finding hecause the sclerotic condition prevents proper accommodation of the parts for closure of the valve

In the colon infiltration and fibrosis incident to chronic infection lead to loss of elasticity and ir regularity of contraction The sigmoid is involved most frequently The author believes that in certain cases the formation of diverticula is an extension of the infectious process

variety which is more acute is destructive and ul cerative The \ ray examination reveals gastric hypotonicity and intestinal hypermotility principal sign of ileocæcal or crecocolic tuberculosis is the progressively increasing intolerance of the cæcum to any content. In the authors cases with ulceration this was demonstrated by fluoroscopic observation and palpation. The only other case in which it was noted was a case of retroperatoneal sar come which had raised and displaced the cocum

The authors report five cases in which the diag nosis of caecal involvement was made from the \ ray findings In these cases the cocum was removed When the diagnosis can be made from the clinical symptoms the condition is usually beyond operative relief The evidence of gross pathological changes in the bonel before its resection was slight. In two cases only the appendix showed gross evidence of disease but in two others there were no significant changes in the appendix. The authors reject the theory that the appendix is the first intestinal lo

calization of the disease

In cases of tuberculoma or the hyperplastic type of intestinal tuberculosis surgical removal is often indicated to rule out malignancy or relieve obstruction The results of resection of the cæcum in these cases are usually very satisfactory as not infre quently the patient is free from tuberculosis else where In the operation great care must be taken to prevent infection

The article is supplemented by a number of roent WILLIAM I PICKETT M D

Ockin A Acute Appendicatis A Study Based on the Material of the Municipal Military Hospital of Moscow (Die akute Appendicitis auf Grund des Materials des staedtischen Soldatenkovkranken hauses in Moskau) I erhandl d 16 russ Chirur genkoner Moscow 1924

Of 4 103 cases of appendicitis treated in the Municipal Hospital of Mo cow 935 were acute Six bundred and seven were operated upon the ratio of those operated upon to those not operated upon being therefore I I 8 The critical period for the development of peritonitis is the first eight days Later the tendency is toward abscess formation Of the 328 ca es treated surgically forty two were operated upon on the first day lorty four on the econd day twenty seven on the third day twenty one on the fourth day twenty on the fifth day ten on the sixth day twelve on the seventh day six on the eighth day eleven on the ninth day six on the tenth day fifty six between the eleventh and eight eenth days and seventy three between the nine teenth and twenty fourth days

A diagnostic error was made in three ca es (o 9 per cent) In 196 cases the appendix was removed in 117 only a laparotomy or extraperitoneal section was done and in fifteen a combined operation was performed

The author usually operates within the fir t twenty four hours When early infiltration has occurred without menacing symptoms he waits until the second day At later stages he op rates only on the most urgent indications

Of the seventy six deaths in the cases reviewed sixty eight were due to diffuse peritonitis four to localized peritonitis with abscess one to narcosis and three to severe complicating diseases. The total mortality in the cases of acute appendicitis was 8 i per cent In the cases operated upon it was 23 2 per cent. In the forty two cases in which op ration was performed on the first day there was one death a mortality of 2 4 per cent The cause of this death was peritoneal sepsis. In the forty four cases on r ated upon on the second day there were eight deaths from diffuse purulent peritonitis a mortality of 18 2 per cent With op ration on su ceeding days the mortality rose to 33 3 per cent on the third In cases of diffuse p ritoritis the mortality was 100 per cent

Operation within the first twenty four hours is urgently indicated but in Russia this is not always possible on account of general conditions

SCHAACK (Z)

Hertzier A E An Inquiry Into the Nature of Chronic Appendicitis 1m J Obst & Gance 1026 vi 155 Rosston G D and Fisher A O Appendicitis in

1m J Obst & Gynec 1026 11 184 From an investigation to determine the nature of

chronic appendicitis HERTZLER draws the following conclusions 1 Febrotic changes in the appendix of whatever

degree are not attended by clinical symptoms 2 The anatomical structure of the appendix which is commonly removed on the diagnosis of chronic appendicitis shows no variation from that of the appendix of a person without any abdominal complaint whatsoever

3 Considered in the light of like changes in other organs the minimal changes alleged to be present in cases of so called chronic appendicitis are wholly inadequate to explain the symptoms ascribed to them

4 Mere alleged relief of symptoms after the removal of the appendix is not sufficient to prove that the appendix was the cause of the symptoms

5 The vast majority of patients subjected to ap pendectomy for chronic appendicatis do not claim relief of their symptoms

6 The symptoms alleged to be due to chronic appendicates can be relieved by searching out and removing the actual cause without molesting the appendit

ROYSTON and FISHER state that acute appendi citis in pregnancy progresses very rapidly and per foration is almost always followed by diffuse spread ing pentooitis with little tendency toward localiza tion and abscess formation

In most instances the diagnosis is not difficult but in some cases the symptoms may be masked by the discomforts of a stormy pregnancy In the presence of acute abdominal symptoms suggesting appen dicitis, the complication of pregnancy should be dis regarded Early interference in such cases is even more urgent, if possible, than in the ordinary case

The authors are of the opinion that appendectomy should be recommended for women who had attacks of appendicitis before they became pregnant. Even though they successfully passed through one or more attacks, the risk of a recurrence during pregnancy is too great to be disregarded. The results of operation in the early months of pregnancy are apparently as good as those obtained in the non pregnant state and the danger of abortion is very slight. Ten cases are reported.

In the discussion of these reports HEYD said that much of the pathology of chromic appendicutis must be accepted on faith He believes that the infected appendix should be regarded, not as a single iso lated organ with symptoms of its own, but as an irritated viscus which interferes with the harmonious

action of the entire gastro intestinal tract

A number of years ago, when Hey dhad occasion to tabulate the so called 'cures' of chronic appendiction by appendectomy he was greatly surprised to find that a cure was not obtained when the appendix was removed for simple localized pain on the right side, whereas in the cases in which the appendectomy was done for symptoms referable to the upper abdomen and there were no demonstrable pathological changes in either the gall bladder or the stomach a cure resulted almost invariably

PHANEUF stated that in the late cases he found a gangrenous ruptured appendix and frequently be gunning general peritonitis due to lack of localiza tion A measure which may save life is enterostomy or excostomy done in connection with the appen dectomy In this procedure a pursestring suture of catgut is placed around the base of the appendix, the appendix is removed flush with the cæcum a No 28 French catheter is introduced into the opening and fastened to the edges of the wound with a stitch of catgut and the pursestring is tied. A second purse string suture is usually employed to make the catheter more secure in the intestine. The catheter is brought out through a stab wound and the ab domen is drained by means of a cigarette drain through the primary incision

This procedure makes it possible to control distention establish drainage and introduce glucose solution directly into the intestine

E L CORNELL M D

Neumann, W Chronic Appendicitis According to the Statistics of the Municipia Military Hos pital of Moscow (Die chronische Appendicitis nach Angaben des staedtischen Soldatenkovkranken hauses in Moskau) Verhandl d 16 russ Chrur genkongr, Moscow 19 4

In the last thirteen years 3 258 cases of chrome appendictis have been treated on the surgical division of the Municipal Military Hospital of Moscow One thousand and sixty two of the patients were

males Forty even per cent of the patients were in the third decade of life

Three thousand and eighty two of the cases were operated upon In twenty one cases removal of the appendix was impossible because of deep infiltration Local anasthesia was employed in 30 per cent

Postoperative pneumonia occurred in ninety cases (3 per cent), and suppuration in 319 cases (10 per cent). There were twenty two deaths, a mortality of 0 7 per cent. The cause of death was narcosis in four, peritonitis in fourteen, sepsis in two, harmo philia in one, and labor in one

The author believes that appendectomy is indi

cated after one attack of appendicitis

SCHAACK (Z)

Ehason, E. L. Pylephiebitis and Liver Abscess Following Appendicitis. Surg. Gynec. & Obst. 19.6, vdn. 510

Pylephlebits and abscess of the liver have come to be regarded by many surgeons as the same condition. Liver abscess may arise through four channels the portal veins the bepatic artery, the bile ducts and possibly, although in no case has this

been demonstrated, through the lymphatics

When the bepatic artery is the portal of entry, the abscesses are small and multiple and death results from the original blood stream infection. When the bile ducts carry the infection the abscesses are distributed accordingly, and put is found in the ducts. In diffuse peritonius, the lymphatics are probably the carriers. It is only when the infection travels by way of the portal veins that hotb pylephilebitis and hepatic abscesses occur even then the two conditions are not always associated as is shown by one of the cases reported in this article.

Eliason has collected in all fifty three cases of pyephlebitis with twenty seven deaths a mortality of 59 per cent. In some of these cases the diagnosis

was not confirmed by operation or autopsy

The signs and symptoms include fever, leuco cytosis pain interius, tenderness, cedema nausea and vomiting ascites lassitude, anoreva and ema ciation. The last three were marked in every case. In cases presenting the symptoms mentioned and in the region of the lower ribs in the mid axillary line a firm or boggy cedema with the cbaracteristics of a lymph rather than a vascular edema, Eliason be lieves an explotation is warranted. The X ray find imps are important.

The author reports twelve cases of liver abscess and two of pylephlebitis. In seven of twelve cases of liver abscess only a single abscess was found. The oldest patient was 67 years of age. The youngest with abscess was 13 years old, and the youngest with pylephlebitis. 7 years old beven of the fourteen patients survived. In the sixty seven cases reported to date—fifty three in the literature and fourteen reported in this article—the mortality was 54 5 per cent.

If a careful study of the reported cases is made two startling facts are brought to light the first.

## SURGERY OF THE ABDOMEN

#### ABDOMINAL WALL AND PERITONEUM

Koontz A R Muscle and Fascia Suture with Re lation to Hernia Repair Surg Gynec & Obst 1926 vilu 222

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#### GASTRO INTESTINAL TRACT

Haudek The Reliability of the Gastric Niche in the Diagnosis of Ulcer (Zur Frage der Verlaesslichkeit der Magennische fuer die Ulcusdia, nose) Fortschr a d Geb a Roonig nitrahien 192 xxun 56 6,1

In the recent literature the reliability of the gasine niche in the diagnosis of ulcer has been questioned Haudés regards it as an entirely reliable sign of ulcer when it is associated with the complete character site syndrome. The diagnosis is cretain however only when the ulcer is situated in the middle portion of the stomach.

Haudek discusses a few cases in which even though an ulter is not found at operation, such a lesion may be present. Not uncommonly an ulter is overlooked during operation. When the findings are apparently negative the gastrocolu omentum should be split and the posterior wall of the stomach exneured.

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Bufalini M Rational Surgical Treatment of Gas tric and Duodenal Ulcer (Sul trattamento chir urgico razionale dell' ulcera gastrica e duodenale) Arch ital de chir 1925 ziv 041

Bufalini reviews the results of the various methods of operation for ulcer from simple gastro enterostom; to the most extensive resections and concludes that there is no method of treatment that furnishes an absolute guarantee against recurrence or the de velopment of peptic ulcer

When resection was first performed numerous statistics were published which showed a much lower percentage of peptic ulcers after this operation than after simple gastro enterostomy, but as the late results have become more evident the difference is not nearly so great

In the attempt to prevent recurrence and peptic ulcer surgeons have passed from simple resection of the pylorus to resection of the antrum and then to subtotal and even total resections of the stomach with the idea of eliminating the hydrochloric acid which is supposed to be the cause of peptic ulcer I hediagnosis is usually made from the harmorrhage or the later evidence of perforation. The condition may be mistaken for periorated appendictis. Oper ative intervention offers the only hope of cure. The diverticulum should be removed. If the patient seen condition will not allow this, eventration of the loop and drainage of the peritoneum must suffice.

The authors report two cases of their own and re view thirteen cases reported in the literature

WILLIAM J PICKETT M D

Pascale G Peptic Ulcer of Meckel s Discrticulum (Ulcera peptica del diverticolo di Meckel) Ann ital di chir 1925 IV, 965

Only eight cases of ulcer of Meckel's diverticulum base been reported in the literature. In four the lesion was found at autopsy, and in the others, during emergency operations performed on various diagnoses.

The author reports a case of his own in which the diagnosis was made before operation. The patient was a 41 year old woman who, since 1972, had heen having crises of pain in the para umhilical region without any true gastric pain or hæmatemesis, had passed blood mixed with pus per rectum, and had periods of obstinate constipation lasting for seven or eight days.

Appendictis was evoluded by the fact that there was no fever and the para umbilical pain did not radate into the iliac fossa. The pain in ulcer of Meckels diverticulum is independent of meals and of the kind of food eaten. It may be accompanied by gastric symptoms but not by vomiting or hema temesis. The hiemorphage from the intestine is more serious the nearer the ulceration to the insertion of the mesentery. The longer the diverticulum and the nearer the ulcer to its tip the less the hemorphage.

In the case reported, the roentgen examination showed the stomach, duodenum and ileocecal region to be normal. At the site of the pain to the right of the umbilical region, was a loop of small intestine containing a dark, well defined shadow which suggested a calculus. A diagnosis of simple ulcer of the small intestine was made.

Operation revealed a Meckel's diverticulum with a calculus and the scar of a healed ulcer. As the appendix was entirely normal, it was not removed. The diverticulum was excised, the opening in the wall of the intestine sutured in three layers and the abdominal wound completely closed. Recovery was uneventful, and the patient has had no further symp.

Peptic ulcers of Meckel's diverticulum are identical with round ulcer of the stomach in their anatomical form, the condition of the tissues around them, and their course and outcome. In all of the cases in which a histological examination has heen made, gastric mucosa has been found in the diverticulum. These islands of primitive embryonic gastric mucosa in abnormal surroundings develop abnormally he cause of lack of function, and the biological condition of the mucosa is affected by a change in the secretion of the peptic glands which favors ulceration as the result of other viscular, nervous, and infective factors

The only treatment is radical removal of the diverticulum

AUDREY G MORGAN, M D

Castex M R Romano N and Beretervlde, J J Insufficiency of the lleocaecal Valve (La insufi ciencia de la válvula ileo cecal) Arch argent de enferm d apar digest, 1925, i 124

Experiments on animals and observations on man through a cacal fistula have shown that the fleo excal valve is a true sphincter which retains fecal matter in the small intestine until digestion is complete and prevents regurstation from the large in testine. Insufficiency of the valve may result from mobility of the cecum, atrophy of the tissues an inflammatory process a congenital defect, or a tumor in the eleoexical region, but its most common cause is dilatation of the excum caused by simple stagnation of frecal matter, an excessive accumula tion of gas dyspepsia from putrification and fermen tation, chronic colitis followed by atony of the wall, or parasitic colitis.

The symptoms are chiefly the general symptoms of intorocation but there is tenderness on pressure over the valve. The valve is situated at the intersection of a line connecting the highest point of the crests of the illum with a line perpendicular to the middle point of Poupart's ligament. In some cases the distended occum can he seen in the right line fossa and pressure exerted with one hand on the ascending olon and the other on the cacum so as to force the valve will make the swelling disappear. In roentigen examinations of 3,000 patients Case found insufficiency of the ileocacal valve in one sixth

The ulnucal histories of twelve cases are reported with the roentgenograms. Except in extreme cases, the treatment is medical. The intestine should be evacuated three or four times a day. The hest method of supplying sugar to the large intestine to favor the growth of flora that will protect against putrefaction is the administration of from 60 to roo gm of lactose daily. Cases in which intestinal para sites are present should be treated with yatren, sto varsol, treparsol or emetine.

In sixty cases which Kellogg treated medically a curve was obtained in 36 per cent, improvement in 40 per cent, and slight benefit in 14 per cent. His radical surgical treatment consists in exteriorizing the electrical region making a U shaped suture to overcome the invagination of the small intestine and restoring the continual yof the ruptured habenula of the exerum. AUDIREY & MORRAN, M D

Larimore J W, and Fisher, A O Tuberculosis of the Caecum Ann Surg 1926, lxxxii 496

Tuberculosis of the intestine is of three types the hyperplastic the fibrous and the ulcerative Primary intestinal tuberculosis tends to remain localized and to be hyperplastic, while the secondary vaniety which is more acute is destructive and ulcerative. The X-rav examination reverse gastine
hypotomicity and intestinal hypermotility. The
principal sign of ileocacial or coxocolic tuberculosis
is the progressively increasing intolerance of the
creum to inv content. In the authors cases with
ulceration this was demonstrated by fluoroscopic
observation and palpation. The only other case in
which it was noted was a case of retroperitorical sar
come which had raised and displaced the execum

The authors report fave cases to which the diag noss of creat involvement was made from the \textsup ray findings. In these cases, the crecum was removed When the diagnosis can be made from the churcal symptoms the condition is u ually beyond operative relief. The evidence of gro pathological changes in the bowel before its resection was slight. In two cases only the appendix showed gross evidence of disease but in two others there were no significant changes in the appendix. The authors reject the theory, that the appendix is the author reject the theory that the dependix is the first intestinal lo calivation of the disease.

In cases of tuberculoma or the hyperplastic type of intestinal tuberculous surgical removal is often indicated to rule out milipianary or relive obstruction. The results of resection of the cacumin the cases are usually very satisfactory as not infrequently the patient is free from tuberculosis else where. In the operation great care must be taken to

Prevent infection
The article is supplemented by a number of roent genograms
William J. Pickett M.D.

Ockin A Acute Appendicuts A Study Based on the Material of the Municipal Military Hospital of Moscow (Die akute Appendicuts auf Grund des Materials des stredit chen Soldstenkovkranken hauses in Moskau) Verhandl & 16 russ Chirar renkourt Mosw 1021

Of 4103 cases of apprindicitis treated in the Municipal Hospital of Mo cow 935 were acute. Six hundred and seven were operated upon the ratio of those operated upon to those not operated upon being therefore is 18. The critical period for the development of pertinonts is the first eight days that the tendency is toward abscess formation. Of the 328 ca. es treated surgically forty two were operated upon on the first day, forty four on the

econd day twenty even on the third day twenty one on the fourth day twenty on the fifth day ten on the swith day twelve on the seventh day six on the eighth day eleven on the ninth day six on the tenth day fifty six between the eleventh and eight eenth days and eventy three between the mine teenth and twinty fourth day.

A diagnostic error was made in three ca es (o o per cent) In 196 cases the appendix was removed in 117 only a laparotomy or extraperitoneal section was done and in fifteen a combined operation was performed.

The author usually operates within the first twenty four hours. When early infiltration has occurred without menacing symptoms he waits until the second day. At later stages he op rates only on the most urgent indications

Of the seventy six deaths in the cases reviewed sixty eight were due to diffuse peritonitis, four to localized peritonitis with abscess one to narcosis and three to severe complicating diseases The total mortality in the cases of acute appendicitis was 8 1 per cent. In the cases operated upon it was 23 2 per cent. In the forty two cases in which op ration was performed on the first day there was one death a mortality of 2 4 per cent The cause of this death was peritoneal sepsis. In the forty four cases op r ated upon on the second day there were eight deaths from diffuse purulent peritonitis a mortality of 18 2 per cent With operation on succeeding days the mortality rose to 33 3 per cent on the third day In cases of diffuse peritonitis the mortality was 100 per cent

Operation within the first twenty four hours is urgently indicated but in Russia this 1 not always

possible on account of general conditions
School (Z)

Hertzler A E An Inquiry into the Nature of Chronic Appendichtis Am J Obst & Gyncc 1926

Chronic Appendicitis Am J Obst & Gynec 1926 x1 155 Royston G D and Fisher A O Appendicitis in

Pregnancy Am J Obst & Gynec 2926 xi 184
From an investigation to determine the nature of
chronic appendicitis Herrzler draws the following
conclusions

1 Tibrotic changes in the appendix of whatever degree are not attended by clinical symptoms

The anatomical structure of the appendix which is commonly removed on the diagnosis of chronic appendicalls shows no variation from that of the appendix of a person without any abdominal complaint whatsoever

3 Considered in the light of like changes in other organs the minimal changes alleged to be present in cases of so called chronic appendictis are wholly inadequate to explain the symptom ascribed to them

4 Mere alleged relief of symptoms after the removal of the appendix is not sufficient to prove that the appendix was the cause of the symptoms

that the appendix was the cause of the symptoms
5 The wast majority of patients subjected to ap
pendectomy for chronic appendicates do not claim

rehef of their symptoms alleged to be due to chronic

appendicts can be relieved by searching out and removing the actual cause without molesting the appendix

ROSSON and FISHER tate that acute appendix

citis in pregnancy progresses very rapidly and per foration is almost always followed by diffuse spread ing peritomits with little tendency toward localization and abscess formation

In most instances the diagnosis is not difficult but in some cases the symptoms may be masked by the discomforts of a stormy pregnancy. In the presence of acute abdominal symptoms suggesting appendicities, the complication of pregnancy should he disregarded Early interference in such cases is even more urgent, if possible, than in the ordinary case

The authors are of the opinion that appendectomy should be recommended for women who had attacks of appendictits before they became pregnant. Even though they successfully passed through one or more attacks, the risk of a recurrence during pregnancy is too great to be disregarded. The results of operation in the early months of pregnancy are apparently as good as those obtained in the non pregnant state and the danger of abortion is very slight. Ten cases are reported.

In the discussion of these reports HEVD said that much of the pathology of chromic appendictis must be accepted on faith. He believes that the infected appendix should be regarded, not as a single iso lated organ with symptoms of its own, but as an irritated viscus which interferes with the harmonious

action of the entire gastro intestinal tract

A number of years ago when Heyd had occasion to tabulate the so called 'cures' of chronic appendicitis by appendectomy he was greatly surprised to find that a cure was not obtained when the appendix was removed for sumple localized pain on the right side, whereas in the cases in which the appendectomy was done for symptoms referable to the upper abdomen and there were no demonstrable pathological changes in either the gall bladder or the stomach a cure resulted almost invariably

Phaneur stated that in the late cases he found a gangrenous ruptured appendix and frequently be ginning general peritonitis due to lack of localiza tion A measure which may save life is enterostomy or excostomy done in connection with the appen dectomy In this procedure a pursestring suture of catgut is placed around the base of the appendix the appendix is removed flush with the cæcum, a No 28 French catheter is introduced into the opening and fastened to the edges of the wound with a stitch of catgut and the pursestring is tied. A second purse string suture is usually employed to make the Catheter more secure in the intestine The catheter is brought out through a stab wound and the abdomen is drained by means of a cigarette drain through the primary incision

This procedure makes it possible to control distention establish drainage, and introduce glucose solution directly into the intestine

E L CORVELL M D

Neumann, W Chronic Appendicitis According to the Statistics of the Municipal Military Hos pital of Noscow (Die chronische Appendicitis nach Angaben des staedtischen Soldatenkovkranken hauses in Moskau) 1 erhandl d 16 russ Chirur tenkongr Noscow 1924

In the last thirteen years, 3 2,8 cases of chronic appendictus have been treated on the surgical division of the Municipal Military Hospital of Moscow One thousand and sixty two of the patients were

males Forty even per cent of the patients were in the third decade of life

Three thousand and eighty two of the cases were operated upon In twenty one cases removal of the appendix was impossible hecause of deep infiltration Local anæsthesia was employed in 39 per cent

Postoperative pneumonia occurred in ninety c ises (3 per cent), and suppuration in 319 cases (10 per cent). There were twenty two deaths, a mottality of 0 7 per cent. The cause of death was narcosis in four, peritonitis in fourteen, sepsis in two, hamo philia in one, and labor in one

The author helieves that appendectomy is indi

cated after one attack of appendicitis

Sch vacy (Z)

Eliason F L Pylephlebitis and Liver Abscess Following Appendicitis Surg., Gynec & Obst., 1926, vln., 510

Pylephlebitis and abscess of the liver have come to he rigarded by many surgeons as the same condition. Liver abscess may arise through four channels the portal veins the hepatic artery, the bde ducts, and possibly, although in no case has this heen demonstrated, through the bymphatics.

When the hepatic artery is the portal of entry, the abscesses are small and multiple and death results from the original blood stream infection. When the hile ducts carry the infection, the abscesses are distinuted accordingly and pus is found in the ducts. In diffuse pertonitis, the lymphatics are probably the carriers. It is only when the infection travels by way of the portal veins that both pylephilebitis and hepatic abscesses occur, even then, the ty o conditions are not always associated, as is shown by one of the cases reported in this article.

Eliason has collected in all fifty three cases of pyephlebitis with twenty seven deaths a mortality of 59 per cent. In some of these cases the diagnosis

was not confirmed by operation or autopsy

The signs and symptoms include fever, leuco cytosis pain, icterus tenderness, ordema, nausea and vomiting ascates lassitude, anorexia and ema ciation. The last three were marked in every case in cases presenting the symptoms mentioned and, in the region of the lower ribs in the mid axillary line a firm or bogg; ordema with the characteristics of a lymph rather than a vascular ordema, Eliason he lieves an exploration is warranted. The X-ray find ings are important.

The author reports twelve cases of hver abscess and two of pylephlebitis. In seven of twelve cases of liver abscess only a single abscess was found. The oldest patient was 67 years of age. The youngest with abscess was 13 years old, and the youngest with pylephlebitis, 7 years old. Seven of the fourteen patients survived. In the sixty-seven cases reported to date—fifty three in the literature and fourteen reported in this article—the mortality was 54 5 per cent.

If a careful study of the reported cases is made two startling facts are brought to light the first,

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that in every case a provisional diagnosis or a re tained diagnosis of right basal pneumonia was made and the second that a positive operative diagnosis was made very tardily The treatment was surgical

The author draws the following conclusions Pylephlebitis and liver abscess are not identi cal They occur as a complication in from o 1 to o 4

per cent of cases of appendicitis

2 The \ ray and fluoroscope aid in the early diagnosis by showing a high diaphragm the move ment of which is sometimes restricted

Local ordema and prominent veins are valuable

diagnostic signs 4 Pain is not always present. It is noted most when the infection is in or on the upper surface of

the liver 5 Pneumonic signs are frequently the result of lung compression rather than pneumonia

Taundice is practically a constant sign

The presence of lassitude and anorexia is very suggestive in the diagnosis

The prognosis is not always poor since recov ery results in 54 per cent of the cases

o Operation through the diaphragm is the treat ment of choice CARL R STEINE M D

Cantelmo O An Experimental Study of the I hyslonathology of Heosigmoldostomy (Contribute sperimentale alia fisiopatologia delle ilcosigmoid ostomie) inn stal di chir 19 5 iv roor

Cantelmo reports his experimental work on eight dogs The histological structure and function of the colon are practically the same in the dog and man but in the dog there is no sigmoid in the true sense of the word the descending colon passing to the ampulla without any flexure Anastomosis hetween the ileum and the lower part of the colon in the dog is equivalent to ileo igmoidostomy in man

Four of the author a dogs died the mortality being therefore so per cent In all of those which died the intestine was full because a purgative had not been given or an enema was not effective. In the only one of these dogs in which no operative measures had been taken to exclude the intermediate tract of the intestine nutrition remained normal while in the three in which steno is of the intermediate tract had been brought about nutrition was very poor

The report is supplemented by roentgenograms of the eight animals From these and examinations of the specimens the author concludes that in the dog a low ileocolostomy has little effect in deviating the current of intestinal centents from its normal path unle s operative measures are taken to bring about steno is of the intermediate tract The current pa ses over the anastomotic opening without hecom ing engaged in it and follows its old path unless the lumen of the sleum is obstructed in some other way as for example by peritoneal bands If the ileo colostomy is supplemented by stenosis of the post anastomotic segment of the intestine the current is deviated and pas es through the new opening When under the same experimental conditions the post

anastomotic ileum is obstructed the pre anastomotic part of the colon assumes a compensatory function in acting on the chyme which flows back from the post anastomotic terminal colon The reflux into the inter mediate colon following a low ileocolostomy does not seem to he any greater than is necessary for this compensating action

In comparing low ileocolostomy with anastomosis between the ileum and higher segments of the colon the author found that the former is less apt to be followed by reflux into the excum with starnation of the intestinal contents After a high anastomosis enormous accumulations of faces sometimes occur in the execum Low ileocolostomy had the disadvan tage of excluding a long tract of the intestine while high anastomosis is associated with the danger of serious reflux. The author believes that the former is less dangerous than the latter

AUDREY G MORGAY M D

Mandi F The Field of Application of the Primary and Secondary Drawing Through Procedure Following Resection of Rectal Cancer by the Sacral Route Alson Demonstration of the Pos sibility of Artificial Prolapse and Its Applica tion (Zur Anwendungsbreite des primaeren und sekundaeren Durchzugsverfahrens nach Resektion

des Mastdarmkrebses auf sakralem Wege gleich zeitiger Hinweis auf die Moeglichkeit einer Luenst lichen Prolabierung und deren Ausnutzung) 1rch f Min Chir 1925 exxxvi 479

Even though a number of leading surgeons have recently contended that a truly radical operation for cancer of the rectum can be accomplished only by a combined operation the sacral operation is still regarded as the method of choice at the Hochenegg Clime

In the author's opinion the drawing through pro cedure is the safest method of treating the gut after resection of the rectum He attributes kirschner b poor results with it to its performance in the absence of a definite indication and the use of an incorrect technique

Cangrene of the gut must be avoided. The part of the gut to he drawn through must be well nour ished therefore no blood vessel that is important for its nutrition should be ligated and the part of the gut drawn through must not be subjected to too great tension The proximal portion of the intestine must he applied to the anus or the peripheral portion of the gut without tension

In order to maintain the viability of the part of the gut drawn down the wound cavity should be made as small as possible the soft parts drawn toward the intestinal wall and care taken that gauze tampons are not placed tightly around the gut. In cases in which from the beginning errors of asepsis cannot be avoided the surgeon should proceed antiseptically by wiping with Pregl s todine solution

Before the gut is drawn through the proximal portion should be closed completely with gauze

In the peripheral portion of the rectum the mucosa should first be removed

The technique as regards the portion of the gut brought to the anus should he as simple as possible

In the after treatment, it is most important to prevent stenosis of the anus Consequently the sphincter portion must be subjected to the syste matic use of houges, beginning about ten days after

The author discusses also the so called secondary drawing through technique of Weil For cases in which after resection of the rectum, there is complete separation of the afferent portion of the gut from the anal portion with prolapse of the former, Weil suggested drawing the prolapsed portion of the gut through the peripheral portion after opening of its upper cicatricially contracted end On the basis of quite a large number of favorable results ob tained with this method the author suggests that in every case in which a resection can be undertak en with maintenance of the sphincter portion and in which any difficulty is experienced in the circu lar suture or the drawing through method the sphincter portion be left and the proximal portion of the sacral anus he loosely sutured An attempt might then be made to produce a prolapse from the sacral anus by artificial methods. With the development of the prolapse the quite reliable sec ondary drawing through procedure could be done

DENCKS (Z)

Powilewicz A Imperforate Anus Corrected by Operation Associated Megasigmoid (Imperfora tion anale opéree et guérie megacolon sigmoidien concomitant) Bull Soc d'obst et de gynéc de Par 1025 UV. 627

The author reports the case of an infant which was brought for treatment on the third day after birth because of vomiting, abdominal distention and ab sence of bowel movements Examination revealed complete absence of the anus The .kin over the

anal region was perfectly smooth Operation was performed immediately Through a longitudinal median incision and an incision joining the ischial tuberosities, the hlind pouch constituting the rectum was found 11/2 cm helow the surface This pouch was opened drawn down and sutured to the skin The infant recovered, and when seen a year later was normal At that time, at the sug gestion of Couvelaire, the intestine was examined with the \ ray This examination revealed marked distention of the sigmoid and of the lower part of the descending colon As no secondary constriction had followed the operation, the distention was re garded as congenital

In the discussion of this case Couvelaire cited a case of the same type in which the megacolon was not discovered until adult life The patient, a wom an, was operated upon in the third month of preg nancy for what was thought to be a cyst Instead a dilated pelvic colon containing a fecal impaction was found The fæcal mass was broken up After the operation the pregnancy continued normally to term ALBERT I DE GROAT M D

Madelung O W Empalement Wounds of the Anus and Rectum (Pfaehlungsverletzungen des Afters und des Mastdarms) Arch f klin Chir.

The author collected 276 cases of empalement wounds of the anus and rectum Thirty five years ago he pointed out the importance of this type of injury and since that time has followed the subject with special interest

Madelung describes the different methods by which such wounds may he produced and their char acter They may be classified anatomically into wounds of the rectum and their complications such as wounds of the vaging the connective tissue, and the bones of the pelvis wounds of the hladder and urethra and wounds of the pentoneum and the in trangutoneal organs

The clinical course varies according to the seventy of the mury Of the patients whose cases are reviewed twenty nine died within the first forty eight hours The symptoms associated with each type of wound are described Peritonitis in particular is dis cussed Of 103 cases of involvement of the perito neuro perstonitis developed in eighty four Thirty two of the patients with peritonitis recovered. Of these twenty three were subjected to laparotomy Fifty two died

Of the 103 persons sustaining a rectal wound open ing into the peritoneal cavity, forty three recovered and sixty died. Of forty four who were subjected to laparotomy twenty nine recovered and fifteen died

In the diagnosis, attention should be given to the direction and depth of the empalement, par ticularly with regard to the presence of an opening into the peritoneal cavity. The author gives detailed instructions concerning the examination in different types of injury

The patient should be treated in a hospital, since even when the external wound is small there may be a severe internal injury. When possible he should be transported to the hospital in the sitting position

In doubtful cases a laparotomy should be per formed without delay, involvement of the perito neum is nearly always disclosed Enemata should never be given under any circumstances External suture of the wound is also dangerous. The treat ment indicated in involvement of the different organs is described in detail SCHUEVEMANN (Z)

LIVER, GALL BLADDER, PANCREAS, AND SPLEEN

Fetter W J The Present Status of Functional Tests of the Liver Atlantic M J 19 6 XXIX 289 Grier G W Y Ray Diagnosis of Diseases of the Liver and Gall Bladder Atlantic II J 1926 YVIY

Maclachlan W W G The Significance of Blle Pigment Atlantic M J 1926 YET 207

FETTER attaches definite clinical value to the liver function test with phenoltetrachlorphthalein accord ing to the method of Rosenthal a procedure in which

the rate of fiver exerction is estimated by determining the amount of the dye retained in the blood serum. However when obstruct e jaundice is present the value of the test is lessened because fiver function and jaundice are parallel in degree. The dye test is indicated therefore in non-obstruct.

The tolerance tests of the functional capacity of the liver hen dealing with carbohydrates Fetter

has found disappointing

Geurg states that the X ray is of little and in the hagnosis of liver discale unless the contour of the organ has been changed by disease. Direct evidence of carcinoma or other tumots can sometimes be obtained by roentigen examination and shade is of stones in the gall ducts or gall bladder are often demonstrated.

When stones fail to cast shadows their presence may be reveiled following the use of sodium tetra codophen platinhalism which is excreted through the liver and renders hide opaque to the \text{N} ray thus causing shadows corresponding to the sharp of the gall bladder whenever it is possible for the dye laden bile to erier that organ. The absence of the gall bladder shadow when the technique is dependable indicates obstruct unon of the cystic duer

Grier advocates the use of pneumoperatoneum in the differentiation of liver disease from other conditions in the henatic region, such as nathological

masses above the diaphragm

MACLACHIAN gives a comprehensive review of the theories of the formation of bile pigment citing the opinions of Blankenhorn McNee Mann McNas ters Whipple Hooper Rous van den Bergh Muel enrasht Rich and Bumstead

He believes that blie pigments can be produced without the lever th lever merely storing or exercting them. He is estimated to the pigments as an aid to early diagnosis. Attention is called to the that the class at lexamination of the selecte and skin in bright daylight seldom fails to reveal access if it is present.

When Maclachlan desires to make a test for hise pigments in the unne he instructs the patient to decrease his fluid intake in order to concentrate the

Dr vis R Crite M D

Snell A M The Clinical Application of Recent Studies on Jaundice Surg Gynes & Obst 1926 xhs 528

I cent physiological tudies have definitely established the fact that bistributh the principal pigvient of human bile is formed outside the liver from hamoglobin. Mann and his coworkers at the Mayor Clinic have brought forward evidence to show that this transformation is effected chiefly in the splien and hone marro's presumably through the agency of the reticule endothelial system.

According to McNee an excess of bile pigment in the blood stream may be due to (1) the excessive production of bilirubin from hamoglobin, (2) obstruction in the bile passages with subsequent re ab sorption of bilirubin or (3) disturbance of the function of the polygonal liver cells and their failure to excrete bilirubin in quantities sufficient to keep pact with production

The types of jaundice resulting from these conditions may be classified as harmolytic obstructure and toruc or infectious. A basis for differentiation is furnished by van den Berghis test, which gives an indirect recretion in harmolytic jaundice a dieter traction is obstructive jaundice and either a delayed hiphasis. Or direct reaction in the toruc or in fectious type. This test while not an entirely satisfactory basis for such differentiation is most useful in the recognition of latent jaundice and the quartitative study of hie purements in the blood stream

It has been difficult to show changes in carbo hydrate and protein metabolism in jaundited patients by means of functional tests but in jaundited animals diminished fruitose tolerance and lowering of the blood urea occur quite constantly. Since a liberal supply of carbohydrate has been shown to protect the liver from tost unjury, and since de fective carbohydrate metabolism is I nown to accompany jundice dues high in carbohydrates and tutratenous injections of gluco e have heen used infinally in such cases with gratifying regults.

In studies of liver function in experimental ani male and in patients a remarkable parallelism be tneen the degree of paundice and the degree of re tention of dies such as phenoltetrachlorobthalein is shown. The reasons for this are obscure but cer lain observations seem to show that the dye reten tion may be due to functional impairment in the liver cells as well as to a pathological change. This is demonstrated by the fact that dye retention ac companies intravenous injections of ablethal doses of dilute whole bile and that there is an immediate development of high grade die retention in experi mental animals after cholecy stectomy and ligation of the common duct. In such as es no adequate patho logical basis for the dye retention can be demonstrat ed It is apparently not justifiable to reckon damage to the hepatic parenchyma due to jaundice in terms of phenoltetrachlorphthalein retention alone number of other factors mu t be taken into account

Other constituents of bile such as faurochoic and glyco-hols, and ar, retained during obstitutive jaundice and may have a profound effect on the organism. Recent methods have been develop of for the study of bile acids in the blood and at the Mayo Clinic experimental and chincal work, is being unfertaken to determine their rolle in obstructive and dissociated mandre.

Rodriguez M C Primary Lyopneumocyst of the Liver (Lioneumoquisteprimiti odebigado) Semona

mel 1925 xxxui B24

The author reports two cases of primary popenemics of the liver with postoperative septic complications. The first patient was a man of 37 years who came for treatment for pain in the right hypochondrum slight fiever, and a substent color

of the conjunctiva After he had heen in bed under observation for a week he was suddenly seized with intense pain in the right hypochondrum associated with vomiting a small, rapid pulse, and a tempera

ture of 35 o degrees C

On examination, the right lobe of the liver was found greatly enlarged and the liver duliness replaced by tympany. An eosinophilia of 4 per cent was present. The Wassermann test was negative. This tools were colorless. No parasites, ova, or vesicles were discovered. Roenigen examination showed the right side of the diaphragm to be very high and almost motionless, and disclosed, heneath the diaphragm, as semilunar clear zone bounded below by a straight line which moved when the patient's position was changed.

At operation, performed under ether anaesthesia, a cyst was found in the liver and a large amount of gas, pus, and vesicles was discharged. Free drainage

was established

On the twelfth day the patient's temperature was degrees C, profuse sweating occurred, the pulse was small and rapid, and there was marked prostration. A frank septicoma then developed with car date weakness and a temperature varying from 37 to 41 degrees C. Under treatment with autogenous vaccines, fixation abscesses and irrigation of the abscess cavity with a disinfectant, the patient recovered.

The second case was that of a man of 55 years who four years ago, had had pain in the night hyp ochondrium radiating to the shoulder. This pain ceased spontaneously but a short time before the pottent consulted the author it recurred suddenly with nausea and vomiting, a temperature of 40 degrees C, frequent unnation and copposite durrinces.

On examination, the right lobe of the liver was found enlarged. Evidening from the fourth rib to the costal margin was a tympanic zone surrounded by dulness. The intradermal hydatid test was weakly positive. The cosinophiles equaled 23 per cent. The Wassermann test was negative. The roentgen picture was similar to that in the author 5 other case.

Operation was performed under novocam adenain anasthesia by the transpleurodiaphragmatic route. The abscess was found about 1 cm below the surface of the liver. A large amount of gas and fettld pus containing vesicles was discharged. Tree drainage was established. Signs of iosufficiency of the liver developed a week later, and the patient died after two days. Moreove M.D.

Ricen L Cholecystitis and Diabetes Northaest
Med 1926 xxv 191

In injection experiments on dogs the author succeeded in demonstrating that lesions of the islands of Langerhais resulting in the symptoms of diabetes can be produced by hæmatogenous infection main tained for a sufficiently long period of time. The fact that he never succeeded in lowering the sugar toler ance of animals in which the gall bladder had been removed suggests that the infected gall bladder may

damage the paocreas, and particularly the islands of Langerhans, to such an extent as to produce diabetic symptoms

Whenever the injectioos produced a febrile reaction, the micro organisms injected were found in the gall bladder. This explains to part at least, the well known fact that infections eriously aggravate the symptoms of diabetes. CARE AS STEINER M.D.

Martin E D Complete Cholecystostomy Versus Cholecystectomy in Cases of Empyema of the Gall Bladder South W J 19 6 vix 198

The author describes an original surgical procedure for the relief of the patient who is acutely sick from empiema of the gall hladder. This operation may result in a cure and requires no more time than that necessary for drainage of the gall bladder. It was first employed as a temporary and life saving measure. To date it has been performed in twelve cases with satisfactory and permanent results, but it is not recommended to replace colocystections, when the latter is indicated and can be done without increasing the risk.

The usual incision is made through the right rec tus and the other abdominal viscera are packed off sufficiently to expose the gall bladder from its fundus to the cystic duct The gall bladder is emptied with suction apparatus, swabbed out with iodine, and then packed with gauze to prevent the escape of pus when it is opened It is incised from the fundus to the cystic duct If the gall bladder is small, no effort is made to remove redundant tissue. If it is greatly distended, as much of its wall is cut away as neces sary and all bleeding points are ligated. A cigar drain with a tube in the center is sutured against the mucous surface. No adhesions are freed except those interfering with the performance of the operation The complications of the operation have been neg-SHIRLEY C LYONS M D hgible

Giordano D The Development of Carcinoma in Calculous Cholecystitis (Della comparsa di car cinoma entro a talune colecisti calcolose) Riforma med 19 5 th 1157

Gordano has found cancer in one of every seven teen of cases in which he has performed an operation for gall stones. He reports the case of a 63 year old woman in whom an operation for gall stones revealed an adenoma of the gall bladder. The patient was living and well fourteen years after the operation Gordano believes that if the tumor bad not been removed, it would probably have undergone malignant degeneration.

A man 61 years old who was operated upon for gall stones and found to bave cancer had suffered from attacks of gall stone colic for twenty five year Gordano believes that if this patient had been oper ated upoo earther his life would have been saved

In another case a cancer of the pancreas was found

Giordano concludes that the irritation of gall stones is often responsible for the development of cancer and while he does not hold that operation should be performed immediately in every case of gall stone colic he believes that if a reasonable period of medical treatment does not cure the symp toms, the patient should be sent to the surgeon as operation may save him not only from gangrees or perforation of the gall blidder and suppurative cholangeits but all of from malignant degeneration

Avoncy C Monew M D

Castex Mt R and Galan J G Glardiasis of the Biliary Tract (La giardiasis de las vias bihares) 1rch argent de enferm d'apar digest 1925 i 30

fhe gardia intestinalis is a flagellate protozoan which inhabits the intestine of man and some animals It was first described by Lambl in 1859. In 1883 it was named lamblia intestinalis by Blanchard

The parasite has two forms the vegetative and the cystic. Its chief habitat is the duodenum and the upper part of the jejinium but it sometimes enters the gall bladder or hile ducts and in exceptional cases the stomach. It may be found in the faces or the fluid obtained by sounding the duodenum The manner in which the infection occurs in man is not known. Rats mice and casts have been osidered hoist of the parasite but the identity of the types occurring in man and animals has not yet been proved. Some investigators believe that the priessite is water borne as it has been found in the sediment of porteal in filters.

A greater number of the authors patients with giardiasis have suffered from constipation than from diarrhoa The syndrome includes dy pepsia an ore was loss of weight painful distention of the abdo men and enlargement of the liver the last sometimes associated with pain and occasionally a sociated with icterus. In some of the cases there was pain in the duodenal region coming on two or more hours after meals resembling that of duodenal uleer or chronic cholecy stitis and associated with comiting eructation or nausea. In almost all of the cases the condition was accompanied by headache pain in the nape of the neck physical and mental prostration insomnia neuralgia and painful precordial oppre sion. In some cases there were symptoms resembling those of true cholelithiasis I eriduodenitis was found in many. The chinical details of nine cases are given

Gardiass is one of the most difficult parasite disaces to cure. The authors have obtained the bestresults with alvarsan Experiments on animals have shown that salvarsan must be given in large doses but this is more or less dangerous as the liver is enlarged and hepatic function is more or less insufficient. Kantor recommends beginning with o 60 gm and increasing the dose rapidly to 00 gm.

AUDREY G MORGAN M D

Coffey R G Dilatation of the Common Bile Duct in the Absence of a Functioning Gati Bladder Ann Surg 19 6 Ixxxii 479

The author has demonstrated by experiments that when a duct is implanted without valve forma

tion the duct dilates but when a valve is produced it does not dilate. The pressure within the gall ducts is much less than the static pressure within the bowel. Peristalis, within the duodenum produces an interval of lower pressure or a relative vacuum during which bile may exape into the duodenum When the duodenum is at rest. the valve at the out the of the duct is closed and bile must remain in the

biliary system. The gall bilader is the chief reservoir for bile when digestion is not going on. In the absence of a functioning gall bilader due to disease or removal of the organ the bile duets become dilated. This dil attation is not centrely harmless as the author demonstrates by the histories of two cases in which the gall bilader had been removed for gall stones. In both of these cases the symptoms continued and as second operation, performed some time later the assence of the cases the symptoms or time that the second operation, performed some time later the symptoms of the continued and decreases the continued and exceeding the continued and exceeding the continued and there was no evidence of stone formation or other obstruction.

The author concludes that dilatation of the ducts is alone sufficient to account for the persistence of symptoms William J Pickett M D

Chiray Lebon and Gozlan A Study of Esternal Panercatic Insufficiency as Indicated by the Enzymes in the Duodenal Juice Removed with a Sound (Edued de linsuffiance panerdatque externe par le dosage des enzymes dans le sus duo dinal prilevé par tubage) Bull et mim See mid d h8p de Par 1925 xi 1646

The authors studied pancreatic function by determining the enzymes in the duodenal junce before and after the administration of a pactreatic stimulant. While there are many substances that attimulate pancreatic secretion most of them are unastractory for such studies as they stimulate also the secretion of the stomach liver and intestines as result the pancreatic junce is greatly diluted and the dilution brings about a decrease in the concentration of the stomach for the concentration of the stomach for the state of the

Of the substances investigated only milk gave a practically constant increase in the enzy mate power of the duodenal juice and as this fact was discovered only recently exact measurements of the normal and pathological values of the external pancreaties seen ton-have not; be been worked out. I'rom the findings made to date it appears that the lipase activity of the duodenal juice collected under the conditional manner of shold exceed so c. or of demonstral and the conditional condi

After the introduction of the duodenal sound from 40 to 60 c cm of a solution of 33 per cent magnesium sulphate is first introduced to empty the gall bladder of its contents. After the exacuation of all of the

gall bladder bile and a few cubic centimeters of Bile C, fo c cm of warm whole milk is injected slowly The opening of the sound is then closed to keep the milk from flowing out. At the end of half an hour the duodenal juice is removed by aspiration or siphon age. Sometimes it is necessary to inject a little warm water to strit the flow. In the duodenal fluid removed in this way, the ferments are measured at intervals of ten minutes the lipase being determined by the author's modification of Bondis method and the trypsin by the method of Giultier, Roche and Baratte.

Damade and Grailly attribute the stimulating action of milk on the pancreas chiefly to the milk fat as they found a greater increase in the fermeots after the use of whole milk than after the use of skimmed milk AUDRIN G MORGIN, M D

Escudero P II Terrada, H M and Gallmo M Cystic Tumors of the Head of the Pancreas Roentgenological Diagnosis (Tumors quisticos de la cabeza del pancreas diagnóstico radiológico) Arth argent de afferm d apar digest 1925 1 342

A discussion of the \textsup ray picture of pancreatic tumor of the cysic type is followed by a brief review of the clinical findings in a case studied by the authors. In the latter, the tumor was visible in the right epigastrium and was palpated as an irregular, firm mass located chiefly in the right epigastrium and the umbilical region. It could be displaced over not the left side of the abdomen and a couple of fingerhreadths downward without causing pain but pressure over the left pole or attempts to displace the mass upward resulted in intense pain in the lumbar region. The tumor itself was insensitive.

ray examination at the time of the ing the contrast medium and at the fourth sixth lighth, and eighteenth hour demonstrated only a long vertically placed stomach with the floor of the an trum below the level of the iliac crest the whole displaced to the left, and progressive stages of filling of the duodenum, which encompassed the tumor forming a large C with its concavity to the left The duodenum was somewhat dilated, and its shadow curve was cut off suddenly as though the duodenal lumen had been closed by compression at the point where the inferior and asceoding part crossed the vertebral column Good roentgenograms were ob tained only by filling the stomach with contrast material and then expressing the material manually through the pylorus into the duodenum It was im possible bowever to force the contrast material or to introduce the duodenal sound beyond the point of seeming compres ion

The condition was diagnosed as a tumor compressing the stomach at the greater curvature causing deformity of the antrum and dislocation of the pylorus and gravely compromising gastric evacuation. Oper ation disclosed a cystic tumor compressing the stomach and duodenum but without adhesions. Upon incision, the mass suggested a round cell sar comprehensing the dispatch with the stomach and duodenum but without adhesions.

tomy was effected with relief of the symptoms due to poor evacuation of the stomach and duodenum John W Brennin, M D

Ashby, H T and Southam A H Spienic Anæ mus of Young Children Treated by Spienectomy Brit M J 1926 : 411

Splene anoma of youngchildren, sometimes called von Jaksch's disease occurs in the first three years of life and is characterized by marked enlargement of the spleen and general debility. The condition is chronic and in advanced cases the prognosis is un favorable.

In the treatment the Nray, arsenic and iron have been found of hith value. The authors report three cases treated during the past year by splenec tomy proceded by roenigen irradiation and blood transfusion. In all of these cases there has been apparently rapid improvement in both the general health and the blood picture.

I EDWARD BISHKOW M D

Whipple A O Splenectomy as a Therapeutic Measure in Thrombocy topenic Purpura Haem orthagica Surg Gynec & Obst 1926 xlii 329

The etiology of purpura hamorthagica is not known the pathology ill defined and the differential diagnosis at times difficult. In the treatment, splen ectomy is done because in many cases of chronic purpura the spleen is enlarged and as the removal of the normal spleen results in an initial increase in blood platelets the procedure seemed logical in a disease characterized by a low platelet count. As the reticulo endothelial cells get rid of jaded or excessive blood platelets it seemed logical to assume that in a disease such as purpura hæmorrhagica in which the platelets are few or absent, some part of this system is overactive and if the overactive cells are largely limited to the spleen the removal of this organ would promise good immediate and probably permacent results On the other hand if the entire reticulo endothelial circle is involved splenectoms would remove only a part of the overactive apparatus and in the presence of such a profound vascular disturbance as that in the acute form of purpura would be extremely hazardous

It appears that in purpura hemorrhagica the blood platelets are formed in normal numbers but are de stroyed by overactive phagocytosis in the spleen and other parts of the reticulo endothelial apparatus

Purpura hæmorrhagica is characterized by five fairly definite findings (1) paucity or absence of platelets (\*) a prolonged bleeding time (3) failure of the clot to retract (4) a normal clotting time and (5) the appearance of petechiae in the skin of an extremity below a tourniquet applied to shut off the venous hut not the arternal flow.

When once the diagnosis has been made it must be determined whether the disease is present in the chronic recurrent form or in the acute lulminating form The former type is usually cured by splene. tomy promptly and permanently while the latter is seldom influenced favorably by it

Of eighty one collected cases eight were operated upon during the acute stage with seven deaths. In seventy three cases of the chronic form there were only six postoperative deaths.

HARRY W FINE M D

Mayo W J The Mortality and End Results of Splenectomy Am J W Sc 1926 clvn 313

Before recommending the removal of a diseased spleen the phy ician must satisfy himself that cure by medical measures cannot be expected and that the prospects of cure hy splenectomy are sufficiently good to make the operation worth the immediate risk, to the patient

The author's purpose in this communication is to analyze hriefly from the standpoint of operative mortality, the experience with 477 cases in which splenectomy was performed and to comment on the after history of the patients as related to the opera

....

The spleen 1 a harmolymph gland which beloogs to the reticulo endothelial system and has three known functions. Its first function is to filter from the blood stream micro-organisms and varous toric age its. These it destroys or sends to the liver for destruction or detoxication. The faulure of the spleen to function as a filter results in its enlargement as in malana and syphilis and the chromic tour spleno.

The second function of the spicen is to produce white blood cells one of the most important being the lymphocyte without which there would be no healing of wounds or repair in the hody. All of the white hlood cells have defensive functions especially the large mononuclear endothelial feucocyte. In

cases of leukæmia a malignant expression is mant fested in the unlimited production of white blood cells which have the power of oxidation through their nuclear activities but are without function hecause

of the lack of cytoplastic control

megaly of the splenic anæmia type

The third function of the spleen is to destroy worn out of detenorted red blood cells a process in which bile pigments are found. An unnecessary destruction of the red blood cells which produces the sub-oxidation of anima is one result of excessive splenic activity due to an increase in the size of the spleen from any cause. A specific action of the spleen on red blood cells is seen in its destruction of red cells with increased fingility as in cases of harmolytic reterus and the destruction of the blood platelets which is characteristic of chronic harmorrhagic purpura Possibly the enlargement of the spleen in these two conditions as well as in certain other conditions is to some extent the result of work hypertrophy.

Sufficient clinical experience is now at hand to demonstrate beyond peradventure that in a number of diseases which would otherwise prove fatal re moval of the spleen will effect a cure

The statistics of early splenectomy show that the mortality was formerly from 25 to 35 per cent The number of cases not heing large it is fair to assume that the high death rate led to delay of operation until the patient's condition grew so senous that splenectomy was certainly more than justified as a last resort.

A vacous errole was thus established in which the high mortality hrought about a delay responsible for a still higher mortality. Operative methods in the early history of splenectomy left much to be desired but better technique of which Balfours method of splenectomy is a fine example has greatly reduced the surgical death rate.

From April r 1904 to January r 1926 splenec tomy was performed in the Mayo Clinic in the following 417 consecutive cases

H outs1 Cause Cases Lases Per nt Disease of the spleen due to infection and toruc agents 100 20 15 3 Abnormality of the white blood cells 50 2 4 0 Abnormality of the red blood cells 147 7 4 8 Splenic neoplasm 10 30 0 3 Surgical accident 10 Indefinite and unclassified 10 0 10 Total 417 10 3

From this table it is seen that the average hospital mortality was slightly more than 10 per cent All of the deaths that occurred in the hospital without regard to the cause or the time are included. If one adopted the thirty day rule that is considered that if death took place more than thirty days after opera tion without surgical complication it was not an operative death there would be a marked improve ment in these statistics but unless an arbitrary method of classifying mortality is adopted the ten dency is unconsciously perhaps to improve the Moyniban speaking of comparative statistics says Statistics can be made to tell any thing even the truth Certainly the method of computing the hospital mortality with the opera tive mortality at least gives the worse side of the

tive m

A survey of the foregoing experience demonstrateclearly that the removal of the spleen is compensated for by the widespread tissues of the reticulo endothelial system of which physologically the spleen is a none too important part. The diseaseswith which the spleen is concerned are complex and pathological processes are seldom primary in this organ it often acts merely as an agent of destruction.

From the surgical standpoint it may be said that if the patients are properly rehabilitated and on the up grade as the result of proper methods of preparation the mortality of splenectomy will be less than per

cent
Experience has shown that the spleen should
never be removed for a chronic condition when the
patient is on the down grade. The dangers of the
constitution has a dealer when the dangers of the

patient is on the down grade. The dangers of the operation are due largely to delay and an unfortunate choice of cases.

A Contribution on the Surger, and Physiology of the Spleen Changes in the Blood Picture and Basal Metabolism Caused by Splenectomy (Contributo alla chururga e fisiologia della milza alterazioni ematologiche e del meta bolismo basale determinate dalla splenectonual inn util dulm 192, 191144

Leotta reports the case of a 13 year-old boy who was subjected to splenectomy because of rupture of the spleen. The operation was followed immediately by a decrease in the red cells and hamoglobin but at the end of a month this was completely compen ated There was also a leucocytosis chiefly a lymphocytosis, which reached its maximum in twenty days and then decreased slowly. At the end of eight months bowever, the number of leucocytes was still about 15,000 A slight temporary increase in the blood platelets and a slight increase in the resistance of the red cells were noted, but there was no change in the coagulation time. These changes showed a loss of splenic function and a disequilibrium hetween hæmatopoiesis and hæmatolysis hut were of hnef duration and sufficiently compensated The child gained normally in weight and height in the eight months, and no anatomical changes occurred except slight enlargement of the lymph glands especially the cervical carotid and inguinal gland

The hasal metabolism showed a marked uncrease The average basal metabolism in a boy in fig years is from  $\pm 38$  th  $\pm 40$  while in the first four months after the operation in the case reported it was  $\pm 57$  it then decreased progre ruley in  $\pm 56$ ,  $\pm 24$ , and  $\pm 57$ , and remained at  $\pm 57$  at the end of the eighth month. In discussing the significance of the increase the author urges further research in the endocrine function of the spleen and particularly the relations of this organ in the thyroid.

AUDRES G MORGEN M D

#### MISCELLANEOUS

Patel and Labry Large Closed Cysts of the Urachus (Contribution à l'étude des gros Lystes fermés de l'ouraque) Gynec et obst 19 3 xii 449

There are three principal types of malformation of the allantos (1) an umbilicove ical fistula, representing complete permeability of the canal (2) a canal closed at the umbilical end but open into the bladder causing a special form of diverticulum, (3) a macbus impermeable at both ends forming a true cyst of the urachus. The authors report a case in the last type

The patient was a woman of 37 years who had always enjoyed excellent health. About three years before she came for treatment she had an attack of intense abdominal pain with vomiting which seemed to be an ordinary attack of indigestion. During the last year ber abdomen had been enlarging and constituation had developed. There were no urnary disturbances except increasing frequency of micturation.

On examination a diagnosis of large cyst of the ovary was made but at operation the cyst was found to lie in the cellular tissue outside the peritoneum and to involve the urachus instead of the ovary. The uterus and adness were normal. The cyst was not continuous with the bladder but adberent to it and some difficulty was experienced in dissecting it free. The wall of the bladder was injured slightly but the mucous membrane was not opened. A few sutures were placed in the bladder wall and the cyst was remaved entire. The peritoneum and abdominal wall were then closed and a retention catheter was left in for four or five days. Uneventful recovery resulted.

Closed costs of the urachus are rare the authors have tound only ten cases in the literature venfied by operation or autops. There are no pathogno monic signs. The most frequent erroneous diagnosis is cyst of the ovari. The condition usually causes general enlargement of the abdomen and sometimes causes pain. A cyst with a median position an elongated spindle shape and adhesion to the umbilious has been given as a pathognomonic sign but these characteristics are obliterated when the tumnic becomes large. However operation is indicated even when an accurate diagnosis is impossible.

The cyst should be extirpated since when punctured it refills rapidly. An attempt should be made to perform an extrapentioneal operation as usually very intimate adbessions are found and dissection requires more time than it is worth. No harm is done if the adherent panetal pentioneum is partially exceed. When the cyst is low, great care is necessary in its dissection from the bladder. Otherwise the operation is easy and without danger.

AUDRES G MORGAN M D

## GYNECOLOGY

#### UTERUS

Vanverts J The Obstetrical Results of Shortening of the Round Ligaments (A propos des résultats obstétricaux du raccourcissement des ligaments ronds) Bull Soc d'obit et de gintée de Par 1925 xiv 695

The author has performed eighteen operations to borten the round ligaments. In seven the ligaments were plicated intra abdominally in three, they were fixed to the abdominal wall by the Dartigues method and neight they were fixed to the posterior surface of the uterus by the method of Dolens and Webster. In all but two cases the operation was performed for mobile retrofletion and it was necessary to free the uterus from adhesions.

Fifteen of the patients were re examined after an interval of not less than several months. In all the corrected position of the uterus was maintained and the menstrual and intermenstrual pain attributed to the retrofleyion had been relieved. In one, the size of

the uterus bad been decreased

Four of the patients subsequently passed through normal pregnances. No time relation could be established between the operation and the occurrence of pregnancy hut in the case of a patient who had previously aborted in the third month the course of pregnancy was probably influenced by the operation as this patient subsequently carried a twin pregnancy men't to term

When the uterus is fixed the Webster operation has the advantage of covering the raw surfaces produced by the breaking up of the adhesions. Although this operation causes considerable displacement of the adners it does not seem to interfere with pregnancy.

August F De Crost M D

Vogt C Prolapse Operations and the Ability to Bear Children (Vorfalloperationen und Gebaer fachigkeit) Zischr f Geburish u Gynack 1925 12321 118

After presenting communications in which it is recommended under certain conditions to perform sterilization simultaneously with an operation for prolapse (Doederlein Reifferscheid) the author states that at the Mayer Clinic operations for prolapse are regarded as permissible even during the age of child bearing but simultaneous sterilization is not approved.

Operations recommended are antenor cologor rhapby with suture of the bladder and the vesi covaginal septum and colpoperincoplasty with suture of the levator am muscle. In these procedures the position of the uterus is disregarded.

During the period from 1907 to 1923 minety five women were observed who bore children after

an operation for prolapse After the operation there is no interference with cohabitation conception of pregnancy. The first hirth following the operation occurred on the average after two years.

In a review of the course of labor attention is at tracted to the frequency of lorceps delicenes. This is due to the fact that for the protection of the scan and the prevention of recurrence in occupital presentations. The application of the forceps to the rotated head with simultaneous median incision of the scar is considered the best procedure. However the figures show also that natural delicery is not made more serious for the mother or the child. The preparam of the women previously operated upon when the scar is considered the protection general the processing of the previously operated upon the scar is considered to the women previously operated upon the processing of the previously operated upon the processing the processin

Seymour II F Findoscopy of the Uterus With a Description of a Hysteroscope J Obst & Gynac Brit Emp 1026 xxxiii 52

The instrument used by the author for endescopy of the uterus is a straight brass tube 3 & m long with a 6 or 9 cm hore and a light at the distillent of here are three chamels in the wall of the tube one for the rod which are called the strength of the matternent distillent dis

In the preparation of the patient for examination a giverine tampon is placed against the cervit for two nights to aid in dilatation. The cervix is then slowly dilated to r. mm and the hysteroscope care fully introduced. A wash on a sponge holder keeps the lamp clear of blood and is withdrawn when the instrument is almost to the fundus. It is re introduced only if the lamp becomes smeared. The surface thou apparatus is started before the introduction of

the hysteroscope

The endometrium is sectionally scrutinized by turning the hysteroscope about and partially with drawing and re inserting the lighted end

The instrument and technique described have the advantage of simplicity and have proved of ad in diagnosis and the removal of satisfactory specimens. The author believes that they will be found of value also in treatment. Magnes P URYES MD

Gron R S Chancre of the Cervix with a Report of Two Cases Am J Obst & Gynce 1925 21 378

The author reports two cases of chancre of the cervix especially from the standpoint of infection and diagnosis. One of these cases demonstrates the

infectiousness of gonorthesa and syphilis before the appearance of symptoms The patient had sexual intercourse with male No r three days after he had sexual intercourse with a prostitute. Neither previously nor at that time did male No 1 have any symptoms or signs of venereal disea e Two days later the patient had intercourse with male No 2 Male No r developed a urethral discharge and eventually a hard chancre. The patient also contracted both gonorrheea and syphilis the latter manifested by a lesion in the cervix but trans mitted only gonorrhera to male No 2 The author believes that the patient and male No 1 had ahra sions of the mucous membrane sufficient to permit the entrance of the spirochæte

Cron describes the characteristics of chancre of the cervix. This lesion must be differentiated from simple cervical erosions, chancroid herpes simplex tuberculous ulcer genortheeal maculæ and car cinoma Simple erosion and carcinoma are the moet

difficult to differentiate

The author s conclusions are the following

The primary lesion of syphilis is frequently found in the cervix Its apparent ranty is due to the fact that it is frequently overlooked and rapidly undergoes involution

2 Routine visual examination of the cervis. especially in freshly infected syphilitic women would demonstrate a higher percentage of primary lesions

3 The spirocheta pallida may be transmitted hy conjugal relations in the absence of a macroscopi cally visible lesion in the transmitter

4 A negative blood Was ermann reaction during

the primary stage does not rule out syphilis 5 The characteristies of the primary lesion on

the cervix may vary so widely that a diagnosis can be established only by demonstrating the spirochata pallida with the dark field microscope or hy microscopic examination of tissue excited from the lesion and positively, only by the demonstration of the spirochata pallida in the characteristic ti-sue lesion

Mosher G C. The Incompatibility of Pregnancy and Fibroids of the Uterus Am J Obs & Gyrec.

Weiss, E A. The Treatment of Fibroids of the Uterus Am J Obst & Gynec 19 6 x1 343

Mosner states that pathological changes in a myoma or fibromyoma associated with pregnancy are indicated by pain hæmorrhage signs of degene ration a rise in the temperature or a high leucocy

If the tumor is situated at the hrim of the pelvis so that it will cause dystocia myomectomy or hysterectomy must be considered Abortion is contra indicated on account of the increased risk of hæm orrhage traumatic injury and septic infection Mosher believes that the casarean section operation is done in many instances without a proper indica

The great majority of cases of fibroids associated with pregnancy run a favorable course after the danger of postpartum hæraorrhage is past tumor may disappear or become so small that it is no longer palpahle

Each case must be treated according to its par ticular requirements. The results depend upon the judgment and skill of the ob-tetrician Mosher re-Weiss states that his attitude is decidedly con

ports seven cases

servative in uncomplicated cases of fibroids but that when complications are present he favors opera-When the preservation of the maternal and ex function is desirable removal of the fibro d hy myomectomy or resection is best. The cales most tavorably affected by irradiation are those of the bleeding variety Patients with diabetes tuberculosis or cardiorenal disease are usually treated best with radium. In every case for which radium treatment is considered, curettage should be done as a diagnostic measure before the introduction of the radium. In the cases of patients less than 40 years of age great care is neces are in the use of radium in order to avoid causing a premature menoname In many cases of fibroid, operation may be safely deterred until definite indications artle

During the past five years Wells has obtained year satisfactors results in a fair percentage of cales treated with radium but he still adheres to the gen eral principle that v benthere is any doubt operation

is the procedure of choice

In the discussion of these reports Weiss stated that in ca es of pregnancy an A ray examination with preumoperitoneum before the fifth month will outline the nodules of a fibroid tumor The obstetrician can then determine whether any of the nodules will obstruct labor. After the fifth month, the \ ray will show the outlines of the fetus in the fibroid

In cases in which casarean section is neces are. Webs is not in favor of performing hysterectomy at the same time unless degenerative changes are

pre-ent

MUSSEY reported that approximately 2 per cent of the women who come to the Mayo Chinic for trea\*ment of fibroid tumors are pregnant. By conservative treatment under careful ob ervation, practically all of these patients can be carned through to term Most of them are delivered spontaneously or with the use of low forceps or midforceps. Casarean sec tion is necessary in only a very few cases

Polak reported that in more than thirty years of obstetrical work he was only once obliged to perform an abdominal operation for obstruction of labor due to an incarcerated fibroid. Of late he has been performing partial resection of the aterus much

more frequently than hysterectomy

SCHMIZ stated that in the large gynecological clinics there should be at least one member of the staff who is thoroughly trained in radiation theraps and that all radiation therapy should be under his supervision To refer patients with gynecological

conditions to the radiologist is a mistake as the radiol ogist does not know how to treat them gynecologically and the gynecologist cannot tell the radiologist how to treat them radiologically

RONEY reported that he has never seen a case of placenta pravia in a pregnant woman with uterine He believes that the only indication for operation for fibroid tumors during pregnancy is pain that cannot be controlled by large doses of mor phine I. I CORNELL M D

### ADNEXAL AND PERIUTERINE CONDITIONS

Daniel C A Study of the Interstitial Portion of the Normal Fallopian Tube (l'tude sur la trompe interstitielle normale) Gynée et obst 1926 xiii 1

The study reported in this article was made on thirteen uteri four of which were infantile and the rest adult. It was found that the interstitial portion of the tube is a separate entity in the adult uterus but up to puberty is more nearly like the utenne cornu The configuration of the lumen in this portion is less definite than that of the outer portion with its four large longitudinal plice and varies in complexity with age. In the senile uterus it is flat. In half of the specimens a o s mm catheter could be

As the epithelium approaches the uterine ostium it becomes more uterine in type and near the uterus there is a thin internal longitudinal muscle layer not present in the rest of the tube. The entire muscle here shows a greater connective tasue content. Also toward the uterine end especially in infants there may be gland like conformations of the plice and a small amount of cellular tissue resembling uterine

In the normal state the tube is closed and a pres sure of from 60 to 100 mm. Hg is necessary to dem onstrate its permeability. During menstruction its mucosa shares in the hyperæmia of the neighboring endometrium and it becomes closed as it does also early in the course of pregnancy. The similarity of the structure of this mucosa to that of the uterus explains how placeptation is possible in this portion of the tube when the tubal mucosa does not share in the formation of the fetal envelope

The author suggests that the interstitial nortion

of the tube might be used for the medical treatment or surgical draininge of conditions in the outer part of the tube just as it is now used for in ufflation in sterility and the production of pneumoperatoneum GOODRICH C SCHAUPFLER M D

#### MISCELLANEOUS

Fogelson S J The Non Specific Antigenic Effect of Spermatozoa upon Fertility Surg Gynec or Obst 1926 xli 374

Fogelson performed experiments on rats to de termine if possible a serological explanation for the type of sterility occurring in the human being which has no apparent anatomical or physiological basis In confirmation of the work of others he found that conception can be temporarily inhibited by sensitiz ing the female rat to any spermatozoa protein This antigenic effect is not specific for species equally good results can be obtained from the spermatozoa of any species

The mechanism causing the sterility is still not clear only precipitins being definitely present and their significance an unknown factor. The role of their significance an unknown factor agglutinins may be considered negative since as marked clumping was seen in the sera of non sen sitized animals especially after inactivation as in specific sera lysins were never seen and towns which fixed or rendered the spermatozoa immobile were so variable that no op nion regarding them is justifiable from these experiments

The results cast no light upon the etiology of so called ichopathic human sterility but tend to climinate protein sensitization as a causative factor and suggest the possibility of devising a contracep tive technique with a definite scientific hasis

HARRY W. FINK M D.

## OBSTETRICS

### PREGNANCY AND ITS COMPLICATIONS

Mahnert A Studies of the Effect of Iodothyreo globulin on Diuresis and Metabolism in Preg nancy (Studien ueber die Witkung von Jodthyreo globulin auf die Diurese und den Stoffwichsel ber Schwangeren 1rch Gynark 1925 CYW

Mahnert investigated the effect of thy rod treat ment in various types of cedema in normal and diseased pregnant women by studying the metabolism following the intravenous injection of nodeby regolobulin. In only a certain percentage of the normal women were metabolism and diuresis in creased by the iodothy regolobulin. The reason why a few isolated cases were refrictory could not be ascertained.

Pathological cases behaved similarly. In most of the cases the metabolism was increased to the extent that une and urea and sodium chloride were excreted in increased amounts. Moreover there was an increase in the cholesterin content of the serum with a simultaneous decrease in the albumin content followed later by a decrease in the cholesterin content of the serum with a simultaneous decrease in the cholesterin content of the serum with a simultaneous decrease in the cholesterin content.

The author compares the disturbances of metab olism and water balance brought about in preg nancy by the injection of iodotby reoglobulin with the symptoms of hy pothy reosis occurring in the non pregnant state and agrees with the theory first ad vanced by Knaus that the function of the thyroid is decreased during pregnancy This accounts for the good effect of thyroid medication as well as of iodothy reoglobulin injections in such cases and for the fact that evidences of hyperthy roidism are never noted subsequently In the cases in which the thy rold treatment seems to have no effect it may be slow in its action or the efficacy of the thy roid prepa ration may be diminished by the acidosis occurring in pregnancy The activity of the hormone depends upon the degree of acidity of its environment

In conclusion attention is called to the similarity of the sequele following the administration of thy roid substance and those following the loss of weight at the end of pregnancy. The latter are attributed to increased function of the organs of internal secretion especially the thy roid of the child

MERNER (G)

Dujol G and Clement R Spontaneous Rupture
During Pregnancy of a Uterus Previously Sub
jected to Cæsarean Section (La rupture spon
tanée pendant la grossesse de l'utérus anténeurement
césanse) Rer frug de evitée ad dobt 1925 x 5 9

The authors have collected twenty six cases of spontaneous rupture of the uterus in patients who had been subjected to casarian section

Statistics of France America, and England show that uterine rupture occurs after cresarean section in from 3 to 4 per cent of the cases, but these statistics include also ruptures occurring during labor

The authors estimate the incidence of rupture before labor at 156 per cent. The symptoms are classical. A sudden sharp pain in the abdomen which may or may not cause syncope is followed by the less rapid appearance of the signs of intra abdominal hemorrhage. Frequently there is vomining. On palpation, the abdomen is tender particularly in the ilitaciossa. The uterus is not well mapped out but the fetus seems to be felt under the skin and presents abnormal mobility. A few hours after the rupture abdominal meteorism is present. On auscultation no fetal heart is heard.

Sections of the ruptured scar show an intense vascularization with traces of an old infection. When the placenta has been inserted at the scar syncytial cells are found. The author reviews the theories as to the causes of weakness of the uterine scar.

Prophylactic treatment consists in watching patients who have been subjected to creasrean section and admitting them to the hospital before labor begins. If a conservative operation is possible, the Portes technique is indicated but in the attempt to be conservative care must be taken not to expose the patient to any unnecessary risks. When haste is necessary on account of the patient's poor condition the Porto operation is indicated. A supra cervical hysterectomy may then be performed later.

SUMATORE IT PLATS UP.

#### Riddel J Rupture of the Uterus During Preg nancy J Obst & Gynac Brit Emp 19 6 xxxiii x

Rupture of the pregnant uterus before labor is exceedingly tare it may occur in discased degen erated or previously injured uteri as the result of indirect violence. It may be caused also by interstitual pregnancy a new growth, hy data difform mole weakness of a cassarean section or other sear or pregnancy in a rudimentary uterine horm. Trau mattic rupture may be caused by sounds curettes bullets crushing or direct violence.

Rupture of the uterus is more common in women who have borne a number of children than in women pregnant for the first time because repeated pregnancies cause degeneration of the well of the uterus Infantilism is rarely an etiological factor as women with an infantile type of uterus are usually sterile

Tears occurring before labor are usually found in the anterior or posterior will or at the summit of the fundus. They may be longitudinal transverse or oblique. They are usually linear but sometimes ringular. If contractions occur, the laceration en larges allowing the escape of the fetus into the perWhen the turning has been completed the lock of the forceps hes close to the perineum and holds in place. It is not necessary for an assistant to hold this blade while the other is being applied.

To apply the posterior blade 'two fingers are in sected into the vagnus between the posterior crewical lip and the fetal head and with the other hand the posterior blade is inserted between the fetal head and the cervivunder the control of the fingers. When the forceps are locked they lie in the anterloposterior diameter of the pelvis. Traction on the head is made in the direction of the handles slightly more down ward than upward. As the hand goes deeper in the pelvis its rotation is spontaneous. If rotation has not taken place it can be accomplished with the forceps. Before extraction through the outlet is begun the sagittal suture should be perpendicular to the pelvic outlet.

Ferrère M A Case of Serious Eclampsia During

Labor Fourteen Convulsions and Slight Loss of Consciousness Injection of 12 Ctgm (1 8 Gr ) of Morphine (Upper Limit) in Ten Hours Low Forces Delivery After Epistomy for Arresia of the Vulta Delivery of a Living infant Startenia of the Vulta Delivery of a Living infant Startenia of the Vulta Delivery of a Living infant and the Constant of the Consta

Important in the treatment of eclampsia with morphine is an exact knowledge of the quantity of morphine which should be given to produce a cure. There is no advantage in giving more than that amount. When the convolutions continue in spite of massive doses it is well to know at what point the injections should be stopped. The maximum bene ficial dose of morphine is 12 ctgm but more can be given to an eclamptic without danver.

The effect of morphine on the nervous system is sometimes gradual. In the case reported by the author the occurrence of three convulsions after the final dose did not after the originally favorable prognosis. Between the convulsions the patient recovered consciousness. Ordinarily no such recovery occurs

consciousness Ordinarily no such recovery occurs after the first three or four convulsions. The morphine was administered in divided doses 14 ctgm after each crisis.

ALBERT I' DE GROAT M D

#### PUERPERIUM AND ITS COMPLICATIONS

Wuesthoff II A Review of Puerperaf Deaths in the Last Twenty Six Years (Knuk der puerperalen Todeslælle der letzten 26 Jahre) Monalsschr f Ge burtih u Gynaek 1925 1xt 189

In the University Conecological Chine at Koenigs berg the total puerperal morbidity averaged 14 per cent including all cases in which the temperature rose to 38 degrees C, even those in which this rise lasted only on day. In spite of the increase and eventual tripling of the number of hirths the an musil's calculated percentage fell from 50 per cent in 1906 to 13 5 per cent. The improvement is due to modern methods of disinfection the more extensive use of rubber gloves even in simple vagual examinations of pregnant women increased knowl examinations of pregnant women increased knowl careful delivery in cases with free a contraction and careful delivery in cases with free a contraction of the indications for obsterical operations and care with regard to the vagual flora particularly hemolytic streptococci.

In the cases reviewed there were sixty three deaths a puerperal mortality of a j per cent. Min the cases in the case were sixty of a j per cent. The case is the case of the work to have teen of the work to have the case of the case of

#### Fobes J II and Fraser W A The Treatment of Puerperal Infection Hahneman Month 1926 in 140

For cases of pueppral infection the authors adocate the adminostration of ergol or pitutina and drainage by clevation of the head of the bed and the sem sitting position of Powler. Intra utenne douches and manipulations are of no avail because the bactena are within the tissues and by ond the reach of chemicals or instruments. Efforts must be made to prevent a bacterizema by limiting the infection and securing a parametine evudate or localizing the pelvic pertinoitis.

In parametritis body rest and tissue rest are indicated If the evudate becomes purplied and an
abocess forms the authors incise and drain. In
as so fbroad ligament abises the best results have
been obtained by opening the abdomen through a
Isanensited microsion of locate the abscess making
a supplementary, incision over the inguinal cinal
graving a butin themostat through the inguinal ring
down between the folds of the broad ligament to the
abscess sewing a rubber tube in place and then closing the Pfannensitel incision and irrigating duly with
Dakin a sodution.

Mercurochrome acriflaving gentian violet, and milk imjections have not proved of value. Infection is urrested most quickly by the development of a hyperleucocytosis. This result is best obtained by the transfusion of normal or immunized whole blood.

In the authors clinic the transfusion of whole blood is preferred because of its simplicity in absolute safety and its definite effects in restoring the bulk of the circulating blood providing one gen and noursh ment for the trissues stimulating the hematopoxitic organs and supplying hemoglobin erythrocytes and leurocytes.

Blood transfusions should be given early instead of as a last resort. They should also be given fre quently, but the quantity of blood transfused at one time should not exceed 300 c cm.

ROLAND S CRON M D

#### NEWBORN

### Dickey L B A Study of an Epidemic of Impetigo in Newborn Infants Arch Pediat, 1926 xhu 145

In eighteen cases of impetigo occurring chiefts in newborn infants in obstetrical nursenes cultures from the blebs showed streptococcus fæcalis stapb plococcus alures, and stapb plococcus albus. The period of incubation is supposed to be less than three days. In some of the cases, the lessons de veloped in one day. Many solutions and utensils were found contaminated with organisms of the same type. Oils in particular and stock boric acid solution are dangerous, as they are often contaminated and allow free growth of the organisms. Boric acid solution is more dangerous than valuable. Oils should be kept in sterile containers and resterilized after use. Tap water was found infected, probably from nozzles etc. Soap also may carry the bacteria

The primary case may bave been in an infant in the children's ward nurser. The infection may have been carried to the obstetrical nurseries by internes staff doctors nurses or others After it was established in the nurseries it was probably transmitted from patient to patient through the medium of the nurses' bands solutions and articles in common use It is important that both internes and nurses should have had careful training in asepsis before they work in nurseries.

At the outbreak of an epidemic all of the babies in the ward should be inspected from head to foot Those showing any signs of the disease should be kept in the original ward and the remainder who have been exposed should be placed in another room New arrivals after that date should be kept either with their mothers or in a third room. There must be no possible contact with either infected cases suspects or the nurses who bave had charge of cases. As members of the exposed group develop the disease they should be transferred to the original infected nursery Obstetrical wards where babies are brought to nurse should be guarded from con tamination There should be prompt isolation of all other infections especially frank pus cases

In the treatment, bichloude of mercury and all cohol baths are of value but not sufficient in them selves Opening and cauterization of the blebs with silver nitrate and the use of the ordinary antiseptic solutions is satisfactory.

GOODRICH C SCHAUPTLER M D

# GENITO-URINARY SURGERY

ADRENAL, KIDNEY, AND URETER

Chute A L A Study of Some Cases of Hyperne phroma Boston II & S J 1926 CTCIV 471

Chute reports the results obtained in forty three cases of hypernephroma thirty one of which were operated upon hy him and six hy other surgeons Six were not operated upon All of the patients who were not operated upon died and five of those treated surgically died of sbock. In five cases only an exploration was done removal of the kidney being contra indicated because metastases were present or the organ was fixed Ten patients subjected to opera tion were living from two to nineteen years later

The chief symptoms of hypernephroma are hæmatuna pain and a mass in one loin Hæma turia was present in thirty three of the cases oper ated upon pain in twenty seven and a mass in twenty seven. The hæmaturia may be painless and very scanty Slight pain may be caused by disten tion of the capsule and more acute pain by hamor

rhage with distention of the pelvis

An early diagnosis is most important. The pa tient must be examined at the time of the bleeding The findings of an examination made during the quiet period are not conclusive. The \ ray exam ination must include the kidney outline. An irregular contour buiging at the center and a knob at one pole are suggestive. The pyelogram usually shows an abnormal pelvis. As the majority of the forty three cases repor ed by the author were ex amined late the mortality was high

Chute exposes the kidney through an anterior incision through the outer border of the rectus This permits exploration of the peritoneal cavity for metastases gives more room at the pedicle than the usual incision and facilitates the recognition of anomalous vessels Drainage may be established through the loin or through the abdominal wound

CLAUDE D PICKRELL M D Cirillo G Bacteriological Studies of Cases of Peri

renal Suppuration (Recherches bactériologiques sur quelques cas de suppuration perirenale) J d'urol med et chir 1925 XX 462

From a bacteriological study of five cases of acute suppurative perinephritis the author concludes that as a rule this condition is caused by bacteria whose usual babitat is the intestine but that like appen dicitis it may be caused by different species of bac teria sometimes alone and sometimes associated with other species. In the majority of cases the in fection is polymicrobic Anaerobes play an impor tant part. Among the e the bacillus perfringens and the micrococcus feetidus are the mo timportant prob ably because in comparison with other species they are capable of adapting themselves more readily to the new conditions in the perirenal tissues

AUDREY G MORGAN M D

Mereler O The Pathogenesis and Treatment of Slight Idiopathic Hydronephrosis (A propos de la pathogéme et du traitement des petites hydroné phroses dites sans cause apparente) J d urol méd et chir 1925 XX 467

The author reports twelve cases of idiopathic hydronephrosis and includes in his article three roentgenograms. The great majority of such hydronephroses are caused by adhesive bands producing fixation of the renal pelvis and the juxtapelvic part of the ureter and associated with slight prosis of the For some unknown reason the position of the kidney is lowered 1 of 2 cm. The part of the ureter nearest the pelvis being fixed by the bands the pelvis becomes either horizontal or oblique from within outward and from above downward and its outlet is upward. Because of this abnormal position the force of the contractions must be increased for normal emptying This effort finally decreases the contractile capacity of the kidney so that the urine tends to accumulate in the depression

Surgical treatment should be conservative Ne phrectomy is contra indicated because there is only slight distention of the pelvis the function of the Lidney parenchyma is intact and the condition is frequently bilateral Pyeloplasty and anastomosis between the ureter and pelvis are not very effective To relieve the intense pain that is often present Papin has proposed resection of the nerve tracts supplying the kidney Complete section of the nerves will stop the pain but is a delicate operation involving danger to the blood vessels if there are pelvic adhesions and as yet has not been performed for a sufficiently long period of time for its effects on the kidney and pel vis to be known. In animals it seems to cause atony of the pelvis On the other hand high neph ropery with liberation of the ureter is simple and effective and a logical operation since it establishes a normal position of the pelvis with relation to the ureter

In all of the cases reported by Mercier recovery was complete and permanent

AUDREY G MORGAN M D

Laquière M Serous Cysts of the Kidney and Con servative Operation (Kystes séreux du rem et opérations conservatrices) J de chir 1925 xxv1 257

The author gives the bistories of five cases of cysts of the kidney This is a rare condition as only 119 other cases base been reported in the literature Brief notes of the other cases are given

Serous cysts of the kidney have no pathognomonic signs and are generally first diagnosed at operation. The pain varies in type and has no special character istics which differentiate it from the pain of conditions such as nephritic, bepatic, and gastric colic appendicitis and salpingitis. If a tumor is palpated, it may be in various situations if the kidney is mobile, and even if it is at the normal site of the kidney its nature cannot be determined. The urine is generally normal.

The usual treatment has been resection but in the author so punion this operation is contra indicat ed as the parenchyma is generally normal. It should be done only when the kidney is diseased. For all other cases the best operation is collar resection. This is an easy operation with no mortality, while the mortality of nephrectomy is about 30 per cent

Collar resection consists in puncturing the cyst and aspirating the liquid opening the cyst, and making a circular section in its wall along the line where it emerges from the parenchyma of the organ. In this way a collar of the cyst is removed and the part which is intimately connected with the kidney parenchyma is left. It lines the depression where the cyst was lodged. No attempt should be made to remove it, at most, it should be curetted and cauterized Some surgeons dislike to leave a part of the cyst, but there is not the slightest danger in doing so as the cysts never recur or degenerate

AUDREY G MORGAN M D

Condamin Vitlation of the Results of Nephrectomy for Unilateral Tuberculosis by Tuberculous Lesions Outside the Kidneys (Des tares apporties aux résultats de la néphrectomic pour tuber culose unilatérale par des localisations tuberculeuses extra rénales) J durol mét dt thr. 1905 xxx 31

The mortality from tuberculosis of the ladney is still high if the late results are considered. The high late mortality is generally explained by the development of a tuberculous lesion that was already present at the time of the operation. This is suggested by the lact that the figure dimmisshes with the lapse of time after the operation, being 31 per cent at the end of three years and 14 per cent at the end of seven years.

The author has collected 172 cases of unilateral tuberculosis in which nephrectomy resulted in a permanent cure in 60 per cent. These were cases with one extrarenal lesion. In a group of fifty three cases with extrarenal lesions, complete recovery resulted in only 47 per cent. Bone lesions have the lest effect on the mortality of nephrectomy. In eighteen cases with bone lesions, a complete recovery resulted in 62 per cent. In twelve cases with genital lesions it was obtained in 50 per cent and in twenty one cases was obtained in 50 per cent and in twenty one cases. Therefore while genital tuberculosis has a marked effect on the late results of nephrectomy, the lesion most to be leared is a pulmonary lesion most to be leared is a pulmonary lesion most to be leared is a pulmonary lesion.

There are a lew cases in which nephrectomy seems to benefit the pulmonary lesion, but these are rare

Cases of renal tuberculosis may be divided into three groups. In the first group are those in which there was no lung complication before operation and in 4 or 5 per cent of which pulmonary disease de velops afterward.

In the second group are those in which a few discrete lesions have been present but have disappeared or remained latent for a long time, and pul monary tuberculosis develops after the operation in

from 10 to 15 per cent

In the third group are cases in which there is main fest tuherculoss at the time of operation and the decision as to operation is difficult. If the pulmonary lesions are clearly progressive with fever night sweats etc. operation should not be considered. If operation is performed because of intense pain from cystitis or the danger that a large suppurating lidney may hreak down miliarly tuberculosis of the lungs or meninges may develop. If the lesions are quescent and not very extensive at the time of operation or if they are localized in one lung and caseation has not hegun operation may be performed if there are reasons for it such as those mentioned, but in such cases the mortality is between 40 and 50 per cent. In the third group of cases operation should be performed only if it is surresulv indicated.

AUDREY G MORGAN, M D

Commenge and Pasteau Deaths from Nephrectomy for Tuberculosis Based on the Constant (Morts par nephréctomie pour tuberculose sur la constante) J durol méd et chir , 1925 vx 492

Commenge reports three cases of early death after nephrectomy for renal tuberculosis His statistics cover sixty two cases of primary nephrectomy for renal tuberculosis performed by the lumbar route with nine deaths from one to nine days after the operation Except for one death from embolism on the twenty third day that of a woman in very poor condition these were the only cases of very early death Three deaths in four (75 per cent) were due to uramia. This percentage is almost the same as that of Legueu and Chevassu for operative deaths and that of Israel and Boeckel for late deaths As Rafin wrote in the "Encyclopedia of Urology," urmary insufficiency and anuria to which Pousson in 1000, attributed 41 per cent of the deaths, hardly enter into recent statistics at all

The question as to whether the uræmia could have heen prevented is discussed. It is possible that it might have been in Case r in which it was latent and the azottemia and the constant had been lowered only ha very strict diet. Operation is very uncertain in such cases as the uræmia may recur on the slightest provocation but in Case r. Commenge was surprised at the rapidity of its development.

Its evolution in Case ? hè could not understand Before the operation the azotemia in this case was o 53 and the constant o 100 the left Lidney increased its urea concentration to 24 5 and yielded 1 47 gm in two hours. Although the water function was excellent, the patient died at the end of fifty hours.

In Case 3 there was some uncertainty as to whether the utine labeled from the left hidney came from the left hidney came from the left hidney came to see a see a

The constant has rendered Commenge great service in more than ninety nephrectonies but he calls attention to the fact that the surgeon and urologist should be on their guard against drawing incorrect conclusions in the cases of patients subjected previously to a low nitrogen diet.

AUDREY G MORGAY M D

Ibuka K Function of the Autogenous Kidney Transplant 1m J W Sc 1926 clvu 497 Ibuka K Function of the Homogenous Kidney Transplant Am J W Sc 1946 clvu 420

From the results of extensive animal experimenta into the author concludes that the successful autog enous kidney transplant in the neck of the dog functions for monthy an a practically normal manner while coexisting with the normal kidney in the abdomen and mantans the animal in good health for a fairly long time after the excision of the other kidney.

When a kidney is transplanted to the neck it can there he studied with regard to certain renal func tions as well as with regard to its own physiological activity Analysis of the urine from the transplant and various functional tests made simultaneously with an investigation of the normal kidney in the abdomen or after the rumoval of the latter showed fairly normal kidney function. After ablation of the other kidney an apparently compensatory activity of the transplant was observed It is evident that the nerve supply to the kidney and the ureter plays a minor and unessential part in renal function since the transplanted kidney functioned equally well in the new location and the renal pelvis and ureter even showed increased peristalsis. The ultimate failure of function of autogenous kidney transplants trans planted successfully to the neck and functioning there for a fairly long time seems to he caused by hy dronephrosis and infection due mainly to mechani cal insult in the new location

Having established a given technique in his work on autogenous kidney transplants the author experimented also with homogenous transplantation. The surgical technique ind postoperative treatment were the same as in the previous experiments. The function of the homogenous transplants in the neck in association with the kidneys of the recipient was observed. This was found to continue for a few days after the transplantation and to end in necross or softening of the transplant. Chemical and functional tests proved that the homogenous transplant for a limited time but its function soon changed and final limited time but its function soon changed and final liveased whereas the autocenous transplant for

covered and assumed normal function at a time corresponding to that at which the homogenous transplant lailed. Study of specimens of the homogenous transplant revealed that the transplanted bidneys were affected at first by nephritic changes of the parenchyma such as cloudy saelling and degeneration of the tubular elements and then by marked nephritic processes in the renal tissue show marked nephritic processes.

The great difference in the length of survival and the functional behavior of the homogenous transplant as compared with the autogenous transplant in the same manner cannot be attributed simply to the surgical and mechanical factors of the op ration. In the author's opinion, it is due probably to some as yet not understood under lying biological factor in homogenous transplants ton. Joint & Chertham MD.

Papin M Anuria for Seven Days After Catheteri zation of the Ureters (Anure sécretoire de sept jours après un cathétérisme des utetères) J d'urot méd et chir 1925 vs 503

In the case of a man 38 years of age a diagnosis of tuberculosis of the left kidney was made and the ureters were catheterized on June 29 1925 The catheterization confirmed the diagnosis The amount of urine collected during a period of two hours was normal but on withdrawal of the catheters urina tion stopp d and in spite of medical treatment no urme was passed for a week. Signs of uramia were noted hut just as the author was preparing to per form a nephrostomy the patient passed 200 gm of urme and thereafter he urmated normally On July 13 Ambard's constant was 0 100 On July 16 pronephrosis of the left kidney developed suddenly and on July 20 Papin was obliged to perform a ne The patient recovered and is now well phrectomy

In discussing this report CHPVASSU said that he has long contended that eathetenzation may irritate the ureters and kidney and considerably impair kidney function and that although it is valuable and necessary in some cases it should be performed only on strict indications.

PASTEAU and MICHOV reported that they had never seen anua following catheteraxition of the ureters. Michon stated that the pritient should be kept in bed after the procedure and that if he had been treating Papins case he would have tred an other catheterization and lavage of the kidney pelvis to overcome the anura. Augusty G Mosava M D

Boehringer K. Ureteral Stone Non Operative In strumental Removal (Ucher Uretersteine un blutige instrumentelle Entfernun<sub>o</sub>) 1 rhandl d dutah Gesellsch f Urot 1925 p 91

When a ureteral stone is not too large its removal or expulsion should be effected if possible through the natural pathway As operation is not infre quently followed by recurrence or scar stricture causing the development of hydronephrosis every

In fifteen of thirty two cases of ureteral stinne seen at the Dresden Johannstadt Municipal Hospital the tone was removed by the natural pass-age. In twelve an operation was performed and in eight the procedure has not yet been decided upon

In seventeen cases from one to three catheters were introduced simultaneously to stretch the ureter catch the stone between the catheters and pull it out. In five cases this procedure resulted in the immediate removal in the stone and in three hy its spontaneous descent several hours later. In mine

cases operation was necessary

Since the very strong contraction of the ureteral wall around and in front of the stone constitutes the chief obstacle to the descent of the stone the author has devised a special dilating instrument. This cin sists in a 5-cm director to be slipped past the stone and a dilator with four steel hands which can be dilated into a basket of about 30 Charmere circum ference. The author has used the instrument twice up to the present time once with immediate success and once with an uncertain result.

Since the conservative management requires great patience on the part of the patient it has been found neces are to operate more frequently than the

HOFFMANN (Z)

author desired

Fions M Obliteration of the Ureter in Gynecological Practice and the Resulting Hydronephrosis (Sull obliterazione dell'uretere in rapporto alla pratica ginecologica e sull'idronefrosi consecutiva) Rr. tid di ginec 19 2 W, 35

The ureter is frequently injured in gynecological practice, particularly in Wertheims panhysterec toms for cancer of the cervix. The author reviews the various methods of repair and concludes that the best method is implantation of the ureter into the bl.dder. This is possible however only when the exterior is extroned close enough to the hladders of that the proximal segment can be implanted without too much stretching.

The next best method and one which is always practicable and quick is closure of the unter. While this causes hydronephrosis and has been compared in its effect to nephrectomy, it brings about slowly and the prectomy accomplishes anatomically and at once and the effects on the organism of low uppression of function of an organ are by no means the same as those of its sudden removal. Nephrectomy is absolutely contra indicated unless the other kidney is normal and when a ureter is injured in the course of a gynecological operation the surgeon may not know whether the other kidney is intact or not

If the o her kidney is diseased ligation in the unter does not subject the patient to the same dan ger as nephrectom. In fact it is known that renal function when suppressed by a hydronephrosis may be re-established even in excess when the stagnated unne begins to flow again. The development of a

permanent and irremediable injury of the kidner re quires some time. When the lession of the epithelium is not too far advanced there may be regeneration of the tuhules. In experimental work the epithelium if the urmiferous tubules presented no signs of de generation a month after ligation, at most they shawed simple atrophy from compression

Various methods of occlusion may be used if they are practiced with due caution. The author prefers tving the ureter with a band of tendon in peritoneum from the lumbar region with periterization of the stump to prevent adhesions. It is evident bowever that the method must be adapted to the condition in the given case. AUDREY GIORGUS MD

### BLADDER URETHRA, AND PENIS

Rejsek J An Unusual Case of Rupture of the Bladder During Cystoradiography (Un cas rare de rupture de la ves ne aucours de cystoradiographie) J durol red et chr. 19.3 xx 382

Rupture of the bladder is generally caused by external violence sustained when the bladder is full but when there is a pathological change in the bladder walls it may occur from internal pressure Repek reports a cale of the latter type in a 68-year old man with symptoms of intense cystitis Cystosconv performed because a calculus was suspected showed that the capacity of the hladder was only 120 c cm and revealed hypertrophy of the trabec ulæ and intense acute inflammation of the mucous membrane As no cause for the cystitis was found a roentgenogram was made after the injection of 120 c cm of 30 per cent sodium bromide and 2 per cent alvoin The patient immediately experienced intense burning pain and a desire to urinate

The roentgenogram showed the hladder surmount ed by a crescent-shaped shadow the concave side of which was connected by a pedicle with the hladder shadow. The lower concave surface was jagged while the upper convex outline was smooth. This shadow was due evidently to the pervesical subpertioned extravasation of the contrast fluid.

The patient refused operation but the next day his condition was much less favorable and only or orm of urine could be obtained on cathetenziation. This finding and the signs of pertonuts and duliness in percussion in the hypogastrum showed that a continuous extravasation of urine was taking place into the subperitoneal space. A suprapulse incision was therefore made and the urine sponged out. There was no hemorrhage. The opening in the hladder wall could not be found. A Freyer tube was placed in the bladder and the perinesical space and the space of Retzius were drained. Partial suture of the aponeurosis and skin was then done. The patient recovered but died soon afterward of pneumonia.

Undouhtedly in such cases there is a pathological change in the bladder wall. Even slight over-distention on injection leads to contraction of the hyper trophied muscle and violent contractions cause an increase in the intra-seizal pressure and rupture of

the bladder as the result of the decrease in the elasticity of the wall. The roentgen picture in the author's case was interesting as the convex line of the crescent showed that the effusion of liquid was extraperationeal. If the rupture had heen intrapen toneal the effusion would have been diffuse and scarcely visible because of the small amount of fluid in such a case it is not necessary to lose time looking for the opening in the bladder wall suprapubic cys tostomy is sufficient. Authory of Mosans MD D

Bazv P Absence of a Shadow in Roentgenography for Vesical Calculi (Note sur i absence d ombre à la radiographie dans les calculs de la vessie) J d'urol méd et chir 1925 xx 160

In his operative notes for November 22 1809 the author finds a note in regard to a case in which a lithortipior was introduced and a roentgenogram then taken A stone was suggested rither than seen clearly between the blades of the lithotripior. As it is often difficult to see the shadow of a vescal calculus. Bazy conceived the idea of studying the shadow seen between the blades of the lithortipior in such cases and upplying the knowledge thus gained to other eases of possible vessel calculus.

He describes three cases in which roentgenograms were taken by competent roentgenologists and pro nounced negative for stone in the bladder but in which he could make out a very faint shadow and bis diagnosis of stone was confirmed by operation. In one case the shadow he saw was the same in size as the distance between the blades of the fitho triptor when it was introduced. Bayy admits however that be may have seen these shadows because be was convinced beforehand of the presence of a stone in the bladder. Amers G Moxan M D

Wallace W J Unusual Bladder Obstruction J Urol 1926 av 325

The author reviews the literature on obstruction of the neck of the bladder and reports an unusual ease

His patient was a laborer 6a3 cars of age the father of four grown children. He was admitted to the hos pital complaining of frequency of urnation strang ury and partial incontinence. His history was negative except that he stated that he had had some difficulty with urnation all his life. During the last vear the symptoms he complained of at the time vear the symptoms he complained and the complained more severe. On according to the control of the symptoms he was prepared for a two stage prostatectoms.

The cystotomy was done under local anexshesia When the second stage of the operation was under taken three weeks later no intraveatal hulging or enlargement was found. Instead there was what appeared to be the wall of a ruptured cyst which was believed to bave been broken during the operation. The bladder was closed in the usual manner hut when healing was complete the difficulty in unnation returned. Sounds were passed into the bladder.

readily hut catheterization of the bladder was fre quently necessary

Cystoscopic examination at this time was unsatis factory. It was necessary to depress the ordiar end of the cystoscope in order to throw the light over the prominence causing the obstruction. A small mass was made out in relation to the left ureteral onfice. As profuse bleeding occurred during the cystoscopic examination a tentative diagnosis of multiple small vesical tumors was made and open exploration of the hladder was recommended.

Operation revealed no tumor but instead a thin fibrous partition or diaphragm extending along the interureteral ridge. This was a firm thin membrane about 1 in in height extending from a point about ½ in to the left of the internal sphincter backward just behind the left ureteral orifice and across on the interureteral ridge and terminating just short of the hight ureteral orifice. This diaphragm divided the bladder into two portions each of which was eapable of holding a considerable amount of urine. When the patient strained the partition eams forward and practically occluded the internal urethal orifice. The septum was grasped with foreeps and removed with the federic eauter. The patient made an un eventful recovery and since the operation has had no unnary difficulty at all.

The author has been unable to find any similar case reported in the literature. The condition differs from the hourglass bladder and the double bladder into each half of which a ureter empties

CLAUDE D HOLMES M D

Scheele k. Granular Cystltis Nodular and Cystle (Die Cystius granulans nodulans und cystica) Verhandl d deutsch Gesellsch f Urol 1925 p 255

The author discusses disease of the unnary blad der which is not tuberculous but forms nodules very similar to tubercles. The cystoscope picture shows a numerous nodules which may occur singly in the region of the tirgone and ursters or are found closely pressed together or in groups scattered over the entire surface of the bladder. The mucosa in the immediate vicinity is often slightly reddened a finding which may fead to confusion of the condition with tuberculous. Beyond this reddened are a how ever there is no macroscopic evidence of inflamma tron Some of the nodules are graysh brown and transparent others which are lighter colored and sometimes larger have a watery transparent content.

The nodules vary in their elevation sometimes scarcely reaching above the level of the mucous membrane and sometimes being distinctly heri sphenical Occasionally the mucous membrane of the hladder particularly in the tingone shows a change toward smoothness so that the markings of the blood vessels are entirely lost and the membrane has an opaque grayash white appearance. The edges of this smooth area show reddening marked injection of the blood vessels and not rarely a few modules.

The author has named this syndrome cystitis granularis He has found it most frequently asso cated with a chronic cystitis which often had evisted, with remissions, for ten years or longer and had been caused by gonorrhoza or a strong genital dischinge or had developed as an obstetrical complication. In any event there had been formerly a severe infection of the bladder, but at the time of the granular tystitis this was no longer present in an acute stage. The patient complianced of itching and stahing pain in the bladder, tenesmus pain at the time of urnation, and urgency of urnation. In spite of this the urne was usually clear or only faintly cloudy

Bacteriological examination revealed staphylococci or streptococci in fourteen of thirty three cases bacillus coli in eleven, and a mixed infection of hacil lus coli and couci in two The histological appearance of excised nodules justifies the classification of the cases into those of cystitis nodularis and those of cystitis epitheliaris Cystitis epithelians may be further divided into the so called "epithelial nest of von Brunn" cysts, glandular structures and leu coplakia The conception of the pathologist that the infection and inflammation play an important role in the production of the lymph nodules as well as the epithelial nodules and cysts coincides with the author's clinical experience. In addition to inflam mation of the bladder, chronic pus infections of the pelvis of the kidney and purulent infections of the genitalia play important roles ROSENBURG (Z)

### GENITAL ORGANS

Shaw, E. C. Epidural Anæsthesia for Perincal Prostatectomy. An Experimental and Clinical Study with a Report of 100 Consecutive Cases J. Urol. 1926, xv. 219

The anatomical arrangement of the nerves supplying the prostate and contiguous structures is such that all may be blocked by a single injection of angesthetizing solution through the sacral biatus into the extradural space. Anæsthesia produced by such an injection has been termed by different surgeons epidural 'extradural,' "caudal," and 'sacral' angesthesia.

In the author's cases transsucral injections and local infiltration were not used

Morphine was given alone as a preliminary sedative in seventy three cases and in combination with accopolamine in thirteen cases. Nine of the patients received no preliminary sedative. The injections were made with the patient in the ventral position. In minety cases the anesthetic was procaine, and in ten, novocan suprarenalm. Blood pressure determinations and pulse and respiration counts were made at five minute intervals from the time of the injection of the anasthetic until the operation was completed. The blood pressure proved to be the best indicator of the patient's condition.

It was found that from 15 to 20 c cm of the amastbetic completely filled the extradural space in the sacral canal and yet did not extend upward to come into contact with nerves supplying areas not involved in the operation

Among the 100 cases the anæsthesia was incomplete in 17 per cent. Whenever there was definite pour the induction of amesthesia was classified as a failure even if the operation could be completed without the use of a general anæsthetic. General anæsthesia was induced in eleven cases

The incidence of satisfactory anæsthesia was proportional not to the amount of procaine solution used but to the concentration of the solution. The best results were obtained with from 15 to 20 c cm

of 3 per cent procaine

Extradural anaesthesia produces complete relava tion of the muscles of the perineum, thereby facilitating the operation. The postoperative complications are definitely less than those following any type of general anesthesia. Postoperative pneumonia and uremin did not occur. Cardiac decompensation occurred in only one case and in this in stance it was mild and was followed by complete recovery.

Epidural anæsthesia should not be used for nervois unco operative patients unless general anæsthesia definitely contra indicated. In the cases of old debilitated patients with impaired kidney function, extradural anæsthesia undoubtedly reduces the operative risk. The extradural block need not be supple mented by transsacral injection.

C TRAVERS STEPITA, M D

Keyes E L An Operation for Incontinence of Urine Following Perineal Prostatectomy Surg, Gynec & Obst 1926, tlu, 423

Keyes reports a case of incontinence following penneal prostatectomy one year previously. The patient was a man 70 years of age. On October 16, 1973, the perineum was opened through the usual V shaped incision made in the line of the old scar and the rectum was separated from the urethra. The membranous urethra was opened by mistake hut was sutured immediately. As no fibers of the external urethral sphinicter could be found, the two levator an muscles were sutured to the posterior part of the bulblocavernosus.

Seven weeks after the operation the patient remained dry all night. When be left the hospital on January 14, 1924 he was dry at night but was unable to control his urine by day except when he was sitting down. Eleven months after the operation he was obliged to empty bis bladder twice at night but was able to bold the urine balf a day. In June, 1925 he reported that he was entirely well, was not obliged to urinate at night, and remained perfectly dry.

ALTON OCUSNER M D

Gayet, G and Peycelon R Pyelonephritis After Prostatectomy (La pyelonephrite chez les prosta tectomisés) J d'urol méd et chir, 1925, xx, 371

Ascending infection of the ureters and pelvis in prostatitis is common but little attention has been paid to the course of the lesions after radical operation and the effect of prostatectomy upon their evolution

The authors report five cases which show that pyelonephitis is not overcome by proslatictomy and after the operation constitutes a danger against which precautions must be taken. In the majority of cases the pyelonephitis which becomes manifest after a prostatectomy is a continuation of a pye lonephitis that euisted before but there are eases in which it develops after operation in patients who had clear unne before Of course read disease preceding prostatectomy also predisposes to this complication.

Pyelonephrits generally develops the third week after prostatectomy and begins when the hypogastric fistula is closed. There is often a light rise in the temperature at this time. The free dramage of the bladder through the suprapulue fistula is replaced by less perfect dramage through the retention cathe ter and the slightest obstruction of the sound with reflux of utine causes an ascending infection.

I yelonephritis after prostatectomy may be acute or chrome The progno is is rather grave. The diagnosis is easy. To prevent the development of the condition special care must be taken when the supra pulse fistula is closed Vesical lavage should be practiced twice a day a low pressure being used in order not to cause a reflux into the ureter Trau matism and infection of the urethra must be avoided A sound must not be introduced through the penis to) soon and after its introduction care must be taken to see that it functions perfectly If the fever and pyuria per ist suprapubic drainage should be reestablished The best treatment for e tablished pyelonephritis is the intravenous injection of urot ropine combined with lavage of the pelvis with r per cent protargol If the hidney increases in size and there is retention of pus nephrotomy may be neces sary In erious cases this operation must not be too long delayed AUDREY C MORGAY M D

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

CONDITIONS OF THE BONES, JOINTS, MUSCLES, TENDONS, ETC

Harbin M. Non Suppurative Osteomyelitis with the Report of an Unusual Case. J. Bone & Joint Surg. 1926 viii 401

In the case reported that of a boy 14,3 cars of age non suppurative sclerosing osteomyelius of the oscalcis followed trauma sustained a year previously when the patient stepped on a rusty nail Weight bearing was very painful. There was no redness or suppuration. The affected heel was broader than its mate and moderately tender. Its surface temperature was slightly increased. Roentgenograms showed destruction throughout the epiphy scal portion of the affected heel, with increased density of the body and proliferation on the lateral aspect.

Operation revealed increased vascularity with slight irregularity an increase in the size of the bone thickening and eburnation of the cortex and a de crease in the cancellous bone. There was no evidence of suppuration. The condition seemed to have some relationship to epiphysis; or osteochondritis.

DANIEL H LEVINTHAL M D

Codman E A Registry of Bone Sarcoma I
Twenty Five Criteria for Establishing the Diag
nosis of Osteogenic Sarcoma II Thirteen
Registered Cases of 'Five-Year Cures Ana
lyzed According to These Criteria Surg Gynec
6 Obst 19 6 Min, 387

One of the primary objects of the registry for bone sarcoma is the collection of cases of osteogenetic sar.oma which have been cured for five years without recurrence and the recording of the methods of treatment in such cured cases

In a period of five years there have been collected only seventeen primary malignant bone tumors

which may be considered cured

Through the efforts of the Registry there is now a collection of 100 standard benging giant cell tumors 100 standard osteogenetic sarcomata of the femur 100 osteogenetic sarcomata of other bones and 50 standard cases of Eving 8 tumor In all, 650 cases have been studied

In the seventeen cured cases of primary malignant bone tumor an amputation was done in all but one In the one exception local exploration was followed by intense irradiation and the use of Coley's serium In eight cases irradiation treatment was given In seven the treatment consisted of amputation alone

In nearly all cases of osteogenetic sarcoma pain precedes the other symptom Pathological fracture is rare whereas in cases of cysts guant cell tumors and carcinoma it is common A history extending over a period of years is unusual Most patients seek advice from one to twelve months after the onset of the condition

The general health just before the onset is good With the exception of cases in which the osteogenetic sarroam was coincident with Pagets disease there is no record of such a sarcoma in a patient over 50 vers of age. The growth of the tumor is rapid and steady being noticeable from month to month.

In the examination the soft tissues are not easily moved over the bony tumor. About one half of all osteogenetic sarcomata occur in the femur and one fourth in the tibia. The phalanges carpal, and small er tarsal bones seem to be exempt. Signs of inflam mation are absent or very mild. The neighboring joint is not involved. The tumor is usually large, and involves but sides of the cortex.

In the \ ray pucture medullary or subpensested involvement is seen. The old shaft remains in its normal position even if it is disintegrated, and is never expanded. The advancing outline of the tumor ne spongy bone is irregular and rough. The process is both osteolytic and osteoblastic. The soft parts near the bony site of the tumor are usually invaded.

On microscopic examination mitotic figures are found to be numerous and hy perchromatism of nuclei and pleomorphism are prominent. Tumor giant cells and foreign bods, giant cells are often present, but their absence does not rule out malignancy. The differentiation between cellular and intercellular substance is not sharp. If complete differentiation is found the tumor is probably benign. Definite blood vessels with walls and branches like the twigs of a tree are chracteristic of osteogenetic sarcoma whereas in benign giant cell tumors there are only capillaries or sinuses without any walls except the endothelium lining them.

As a rule the pathologist, roentgenologist, and surgeon agree in their independent diagnoses if the tumor is definitely malignant. If one of them is in doubt all of the others are also in doubt or should be. Much depends upon the amount of tissue sent to the pathologist and the completeness of the history and other clinical data.

Thirteen cases cured without recurrence after five years are tabulated. In three the tibia was involved and in ten the femur. An amputation was done in all except one. In five the amputation alone must be regarded as responsible for the current.

WILLIAM A CLARK, M D

Cole W H Chondrodysplasia Surg , Gynec & Obst , 1926 dia 359

Olher who first reported chondrodysplasia, de scribed it as irregular and retarded ossification at the epiphyseal cartilages the cartilage persisting as nodules and masses which take a long time to become transformed into bone. The condition is observed most clearly in the bones of the fingers and toes. The clinical picture is that of arrested development and growth with curving of the long bones deformities of the hands and feet and joint deformities conse

quent upon the bony changes

Following a review of the literature, Cole reports a case of his own The patient was a girl of ir years whose right leg had been short from hirth None of the other members of her family showed a similar de The patient had had the usual diseases of childhood Examination revealed enlargements at both ends of the tibia and the lower end of the femur The knee presented varus angulation slight flexion and external rotation The right leg was 20 cm shorter than the left Roentgenograms showed a short thick femur with enlargement at the mid shaft and at the lower end In the enlarged portions mot tling and irregular vacuoles were evident. The same sort of enlargements were found at each end of the tibia and in the first and second toe bones and their metatarsals

A hiopsy was done on the upper tibial tumor Grossly the mass was cartilagenous with a thin bony shell bections showed cartilage with small bony islands. As no treatment was indicated an extension

shoe was prescribed

In conclusion Cole states that the term Olhers disease should be confined to cases ol cartilaginous dystrophy with or without tumor in which asymmetrical involvement of the body is the outstanding clinical feature. Chondrodysplasia also is usually asymmetrical but as several symmetrical cases are on record the term chrondrodysplasia is of broader application than Olhers disease.

WILLIAM A CLARK, M D

Cumberhatch E P and Robinson C A Non Infective Arthritis in Women Brit M J 1926

The authors report investigations carried out from the standpoint that the elucidation of certain ob scure conditions may be facilitated by considering the results of treatment They discovered that the process producing arthritis may sometimes be brought to an end by heating the pelvic organs by The local application was first found effective in gonococcal arthritis but later proved beneficial also in other types of arthritis In the cases of gonococcal infection it was found unneces sary to apply the current to the joints if it was applied to the foci from which the dissemination occurred—the cervix uteri in women and the prostate and seminal vesicles in men With regard to the other cases it was assumed that the effect of the current upon the arthritis was due to its action upon the cervix or the prostate infected by other organisms However in one series of cases in which it seemed clear that no infection was present—those of women in whom the arthritis developed at the time of the establishment of menstruation or at about the age of the menopause—the arthritis appeared to

be due to the lack or deficiency of the hormones of the ovary or some other pelvic organ

In the cases of virgins the diathermy was applied

hy a rectal electrode and in the cases of married women through the vagina

Two cases are reported one of arthritis occurring when menstruation began and the other of arthritis at the time of the menopause. In both of these cases dathering proved beneficial and seemed to aid in the establishment of normal physiological processes Moserer C Lonzegan MD

Syme W S and Cappell D F A Case of Chordoma of the Cervical Vertebræ with favolve ment of the Pharynx J Laryngol & Olol 1926 11 209

The recognition of tumors derived from noto chordal remainst dates from the classical research of Muller Luschka and Virchow Muller was able to show that notochordal remainst frequently persist in the spheno occipital and sacroocecygeal regions About fifty six cases have here reported Such growths occur most frequently in the spheno occipital and sacroocecygeal regions

The authors report the case of a man 50 years old who entered the hospital with a history of shooting pains in the neck of two months duration followed by increasing stiffness and difficulty in swallowing

Breathing and speech were affected

Physical examination disclosed an extensive smooth swelling in the posterior pharygeal wall which was more prominent on the left side than the right. At operation the growth was found limited antenorly and laterally by a capsule Posteriorly it bad invaded the body and adjacent portions of the third cervical vertelina. It was resected as far as possible and a dathlermy button applied.

Six months later a recurrence was operated upon At this time the growth was ill defined and resection was more difficult. The patient died of septic pneu

The first specimen had a curious semi translucent rather gelatinous appearance and was composed of definite strands. The second specimen was similar and no more degenerated. At autopsy no evidence

of metastatic growth was found

The growth was typical of the class of tumor de scribed as chordoma although it was rather more cellular and more malignant than the majority of such growths The histological appearances were characteristic, and reproduced with considerable fidelity the various stages in the ontogeny of the notochord There are solid cellular areas composed of clearly demarcated epithelial cells similar to the notochord in its second stage of development Later the cells begin to become differentiated and exhibit the characteristic mucinous secretion of notochordal cells with here and there the formation of actual physaliphotous cells as the large highly vacuolated structures have been named In other places secre tion is poured freely into the intercellular spaces and the appearance of the notochord at a more advanced stage is reproduced in an exaggerated degree. Final ly, just as when the notochord hecomes enclosed in the centers of the intervertebral disks to give rise to the nucleus pulposus, the cells become modified to irregular syncy tial strands with many large vacuoles which contain a substance of unknown nature.

The presence of very definite sheaths round the smallest invasive elements of the tumor is a striking example of reversion of the tumor cells to a stage far hack not merely in the ontogens of the individual hut also in the phylogeny of the vertebrates. In the human subject, the notochord does not undergo the more elaborate differentiation which occurs in some of the lower vertebrates and the primary and secondary, sheaths are at best only very poorly developed. These sheaths are present in certain lower mammals, e.g. the pig and the mouse, but the greatest development of these structures occurs in exceedingly low vertebrates such as lepidosiren and acan thus

The tumors thus appear to reproduce in a very interesting fashion the character of notochordal cells both in architectural arrangement and cytological structure ROBERT C LOYERGIN, M.D.

Rollier A Pott's Disease J Bone & Joint Surg., 1926 viii 360

Prohably the most famous institution of heliotherapy is that at Leysin Switzerland under the direction of Rollier In this article Rollier reports his observations upon the successful results of helio therapy in Potts disease.

In addition to the sun treatment immobilization in the borzontal position is maintained until a complete cure of the diseased vertebre is demonstrated by roentgenograms. Ambulatory treatment is not considered. The horizontal position gue si the neces sary rest to the spinal column and, by removing the harmful influence of the hody weight, prevents fur ther ulceration due to compression or deviation of the vertebra. To obtain the desirable hyperexteo sion of the diseased segment the patient is immobilized by turn in the dorsal and ventral positions.

In the dorsal position the patient with spondy litts is placed upon a hard mattress if be has well developed musculature and no deformity of the spi nal column. If he is in poor condition millet seed cushions of uniform consistency are arranged between his body and the mattress. In the cases of children and restless adults a canvas jacket is applied with straps to keep the patient from turning or sitting up in bed. In cases of gibbus formation the spine is hyperestended and millet seed cushions of gradually increasing thickness are placed underneath the kyphosis. The cushions are later replaced by a block of wood which conforms to the shape of the sibbus.

When the pain has ceased the patient is turned to the ventral position and a wedge shaped cushion is placed under the chest. In some cases, the shoulders are supported hy a carivas strap fastened to the foot of the hed. In this position the back muscles are

developed by movements. In cases of cervical spondylitts the head is held in a celluloid cup modeled on a plaster cast of the back of the head. Thus cup is fitted with wheeled supports running freely on rails which eliminate traction and permit

any degree of extension

When the disease in olves more than one vertehra the patient is kept in the horizontal position until the \text{Tray shows the formation of a solid cicatricial block with astrong bony structure. This may be obtained in from one to two years. The patient is then gradually permitted to assume the upright position with the aid of a supporting corset. The corset used for men is made of perforated celluloid and that for women of linen re-enforced with steel rods. The author is opposed to plaster corsets.

When the cure is complete the patient is urged to continue the sun baths at home in order to pre

vent a recurrence of the disease

ROBERT C LONGERGALT M.D.

Berry J M A Theory as to the Cause of Perthes'
Disease Based on Roentgenological Findings
J Bone & Joint Surg., 19 6 vm, 333

The theories as to the cause of Perthes' disease are narrowed down to three (1) the infective (2) the

traumatic and (3) the congenital

Thirteen cases are reported with roentgenograms. The author calls attention to the frequency with which bone changes characteristic of Perthes' disease follow the reduction of congenital dislocation of the hip and speculates as to the relationship between them He believes the changes are satisfactorily explained by the theory of partially arrested development

According to the theory of hogeness, the embry on its development tends to repeat the es outionary history of its race. The limb structure of buman embry os at the end of the second month and the position of the limb in relation to the trunk correspond to that found in adult reptilian development. It is probable therefore that partial arrest of growth at the reptilian stage results in an imperfectly formed shallow acctabulum and a small, malformed head of the femur, and that therefore when rotation of the limb takes place to make the erect attitude possible a dislocation of the head of the femur is very apt to occur.

A human hip joint partially arrested in development at the reptilian stage probably has an epiphysis of poor quality. It is easy to believe then that the trauma incident to the reduction of a congenital hip would affect the circulation and would be sufficient to produce the changes of Perthes disease by caus ing the epiphyseal tissue to break down. The author reports one case with characteristic. Yray evidence of the disease following traumatic dislocation of the hip in a boy of o years.

If trauma acting upon defective epiphyseal tissue causes these changes it is logical to expect to find similar changes in defective epiphyseal tissue in other joints. Several such diseases have been observed osteochondritis of the spine tanal sea phodulus osteochondritus of the second and third metatanals and Osgood Schlatters discribe of the thiral tubercle. The author has observed aboa exise in which the 'N ray disclosed changes similar to those of Legg Calvi. Perthes disease in the epiph yass of the lower end of the radius and another in which it revealed such changes in the similar bony changes were found in practically every joint in the body were found in practically every joint in the body.

Moller P F The Clinical Observations After Healing of Calve Perthes Disease Compared with the Final Deformities Left by That Disease and the Bearing of Those Final Deformities on the Ultimate I rodnosis Acts radii 1006 v 1

The author has collected seventy four healed cases of Legg Calve Ferthes disease thirty five of which were his own. In fifty eight cases (78 4 per cent) the functional result was good the only clinical defect being a very slight dragging of the leg in about one half of the cases.

In sixteen cases (21 6 per cent) the disease caused considerable restriction of the movement at the hip and a permanent limp. Seven of the patients in this group have heen able to go about freely and continue their usual occupations but the nine others have continual pain in the hip which decreases their ability.

to work.

The author concludes that the deformities resulting from Legg Calve Perthes disease favor the development of arthritis deformans. He believes that this is true not only of the severe deformities but also of the so called perfectly healed lessons and those which remain latent.

### SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Cotton F J Disinfection of Septic Joints J Bane & Joint Surg 1926 vin 395

Since 1915 the author has advocated incision arrigation and suture of septic joints. The technique is as follows.

Through a small incision about 1/4 in long extending into the synovial pouch a blunt taper pointed irrigator nozzle (like that of a urethral syringe) is inserted.

Under a head of about 18 inches normal salt solution with 115 ooc corrosive sublimate is run into the joint until the sac is ballooned when the tip is withdrawn and the joint emptied. This is repeated for fifteen minutes.

The synovial capsule is then sutured with No or r catali which is not exposed within the joint and the fibrous capsule is sutured with a water tight lock stitch. The outer wound is left open. An alcohol dressing and a pillow splint are applied. Motion is begun on the tenth day.

A focus of infection within the joint will defeat the disinfection Daviet H I EVIVIEL M D latreille J Resection of the Lower End of the Humerus for a Cunshot Wound Finding, Eight Years After the Operation (Késetion disphys) cymphysaire pour traumati me de guerre résultat élogné datani de 8 ans) Res d'orthop 1025 YSUS SCI

The patient whose ease is reported in this article was a soldier who eight yers ago was subjected to subperiosted resection of the humerus for a gin shot wound of the elbow. A recent examination by Latrelle showed a slight prominence of the ofercanon process but all movements were possible. The joint was not abnormally movable. The \text{\text{Nay demon}} is strated a tendency on the part of the bone to widen in order to form a new epiphysis. It revealed also the new trochlea and the condyle. The new bone was 7 cm shorter than its fellow on the opposite side.

I attentie cells attention to the frequency and the relative completeness of bone regeneration when such resections are made subperiosteally according to the technique of Ollier Armony P Saya M D

#### Lyle II II M Skin Plastles in the Treatment of Traumatic Lesions of the Hand and Forearm Ann Surg 1926 Ixxxiii 537

For the restoration of function following injuries of the hand prompt healing is essential. Healing can be expedited by the use of suitable skin grafts. Skin plastics may be employed singly in combination in series and as primary and secondary closs ures. To obtain a primary permanent closure care ful debrudement must be done first and the raw sur face immediately covered by a suitable flap I deal conditions such as a good blood supply, and asepsia are necessary. In small defects the Thresch graft can be used in large defects where deeper structures are exposed a pedunduated flap is necessary.

Secondary closure by a Thiersch graft is done in cases of extensive destruction of the skin and cases of burns and ulcerations. The object of the treat ment is to sterilize the wound and provide an epi dermid covering. It prevents excessive scar formation and decreases the possibility of future contractions.

Skin plastics in series are used when temporary closure is the prime requisite. A Therisch graft is first applied and later when the wound is healed the grafts are removed and a pedunculated flap is substituted.

Mayer L Tendon Transplantations for Division of the Extensor Tendon of the Fingers J Bone & Joint Surg 1926 viii 383

Traumatic division of the extensor tendons in which primary suture is contra indicated by infection or extensive trauma to adjacent tissues can be successfully treated by tendon transplantation per formed under suitable operative conditions. Local anasthesia is used. The extensor communis digito rum tendon of the index finger is the most suitable for transplantation purposes.

The distal end of the severed tendon is exposed through a 11/2 in curved incision. The tendon stump is freed from adhesions and grasped with a tendon forceps A second incision about 3 in long is made over the course of the extensor tendons of the index finger and the extensor communis digitorum tendon to the index finger is severed at the proper level and freed for an adequate distance so that when it is brought to the injured finger it will be as nearly as possible in a straight line A subcutaneous channel is bored from the first incision toward the wrist in the direction of the extensor communis digitorum tendon The channel must be sufficiently wide The paratenon is well preserved. The tendons are spliced by the end to end method or by the buttonhole overlapping method which is more secure

After the operation the finger is immobilized in the extended position for eight days. The splint is then removed it intervals for gentle active motion. The motions are gradually increased both in range and strength. As a rule the range of motion is about 75 per cent of the normal within four weeks after the operation. Desire H. Levens u. M. D.

Mackinnon A P Plaster Shells in the Treatment of Tuberculosis and Fracture of the Spine Canadian M Ass J 1926 vvi, 399

Mackinnon reports his experience with the plaster shells which have been used for several years by the Massachusetts General Hospital and the Children's Hospital of Boston. The shells have proved satis factory after fusion operations on the spine, in cases of recent fracture, and in cases of spinal tuberculosis not operated upon.

They extend from just below the head to the mid die of the calf, and are made in two sections—a posterior and an anterior half. When the lesion is in the upper dorsal or cervical spine, the plaster is extended to form a head piece. The patient is first placed on a table in the prone position with pillows and sand bigs arranged to give as much correction of the deformity as possible without causing pain. Next a layer of felt is cut and applied to the posterior half of the body in such a way as to conform to its contour closely. This is bandaged in place and, by two men it is covered with a plaster bandage applied both lengthuse and across and is molded closely to the figure.

The shell is re enforced by metal strips between the knees connecting the body and thigh portion and in the case of a head price between the body and the head. When the plaster has set the handages holding the felt are cut and the shell with the adhering felt is removed to dry. When the splint is dry, the patient is placed in the posterior shell and an anterior section is made similarly.

Probably the greatest advantage of this splint is that it permits moving the patient without causing discomfort when heliotherapy is to be given or dress ings are to be changed following operations upon the back. With the patient in the posterior half, has be easily turned after the anterior section has been bundaged to its opponent The posterior shell may then he removed

The use of the spint in Pott's disease places the diseased part at rest, relieves it from weight bearing, and either prevents deformity or decreases it through the development of compensatory curves above and below the site of the lesion. It has been found efficacious in the postoperative management of cases in which the fusion operation of Hibbs or Albee has been performed. The author reports one case in which the shell was used with relie of pain and the re establishment of the normal physiological curves following the mainpulation of a recent fracture of the spine.

\*\*ROBERC LOWERGAN M'D

Moorhead J J Arthrotomy for knee Joint Calculi Ann Surg 19 6 Ixxxii 397

Cases of loose body in the knee are classed by Moorhead as acute subacute and chronic

Acute cases comprise those of sudden mechanical injurn followed by pain swelling due to effusion, and disability. One attack predisposes to another, and the condition usually prisses on to the subacute and chronic stage. In the initial injury, the meniscus is probably fractured or partly detached and in subsequent injuries it is separated as a loose body.

In the acute cases examination usually reveals (1) fracture dislocation of a meniscus, (2) a chip fracture from an articular surface (3) a subpatellar fat pad (4) villous synovitis, and (5) hands or ad

hesions
The subacute cases present the same pathological conditions and also synovial excrescences exostoses, and enchondroma

In the chronic group, a hypertrophic arthritis with irregularities of the joint is found in addition

In the acute cases the treatment indicated is reduction of locking aspiration of the joint effusion, and spinting. When the pain subsides the patient may be allowed to wilk while still nearing the spint Overhending or rotation of the knee should be forhidden for several months.

In the subacute cases stimulation of the weak ened quadriceps by massage and radiant heat is im portant. Only rarely is operation indicated in the acute stage.

In the chronic cases, it is often necessary to remove a torn cartilage. This is best done by the Jones method with the knee fleved at a right angle. Move ment should be insisted upon every two hours, be gimming unmediately after the operation. After the removal of the sutures on the seventh day, the patient should begin to walk.

When there is doubt as to the evict nature of the condition the incision should be large enough to expose the entire joint surface. Either the vertical split patella (Jones) meision or the mediolateral in cision will serve will. The latter is beginn in the med line provimal to the patella and brought down to within a cm of the upper margin and around the messal border of the patella to the tibial tubercle. The patella and half of its tendon are then reflected.

outward to the side of the condyle. After either of the incisions mentioned the knee must be flexed acutely for good exposure

A tabular report of forty nine cases as given Thirty six of the patients were males. The Joungest patient was 9 years of age and the oldest 67 years. A lateral arthoroum, was done in twelve cases a media an arthoroum in twenty, three and a medicalteral arthoroum in fourteen. In all joint stability and fiexibility have been improved and in none has there been any ostoprective stiffness.

WILLIAM A CLARK M D

# WILLIAM A CLARK M D Ollerenshaw R The Surgical Treatment of Dan

gle Foot Ent M J 1926 1 525 The author has operated upon maeteen cases of dangle foot by the method described by Campbell Through an external incision such as that made for astragalectomy arthrodesis of the midtarsal and subastragaloid joints is effected and the bone chip are trimmed of cartilage and placed in saline solu tion. In young subjects the entire scaphoid is se moved Through a mid posterior incision the tendon of Achilles is next divided as for Z lengthening and the back of the tihis and the upper surface of the os calcis are exposed. A notch is then cut in the os calcis large enough to receive the broader end of the trimmed scaphoid. After the scaphoid has been placed in position the smaller pieces of bone are grouped above it and fixed in place by suturing the tendon of

Achilles The tendon is lengthened sufficiently to allow a right angled position of the ankle. A plaster cast is applied for six weeks and at the end of that time is replaced for six months by a posterior from brace preventing plantar flevious.

DANCEL H LEVINITAL M D

# FRACTURES AND DISLOCATIONS

Thomson J E M Leverage and Levers in the Re duction of Fractures Nebraska State M J 1926

Thomson's technique for the reduction of fractures by leverage is as follows

With the patient under anissthesia and on a fluoro scopic table a stab incision is made over the fracture and by means of a blunt lever of  $l_A$  in round steel the fragments are approximated under the guidance of the fluoroscopic screen. When a good position is

obtained the lever is held in place and a cast applied around it. The protruding end may be cut off to prevent its being disturbed in the nursing of the patient. After about ten days, when sufficient callus has formed to hold the fragments, a window is cut in the cast and the fever pulled out.

Thomson claims that this procedure is a definite and certain method of reducing fractures and that the introduction of the lever is no more dangerous than the insertion of a large local anaesthetic needle or of the chief for estections.

WILLIAM A CLARK MD

Ritter II II Lasher W W Wurtzel G L and Goldblatt D Fractures About the Elbow Joint A Review of 150 Cases End Results in Flity Two Cases J Am M Ass 1926 IXXVI

This article is a review of 150 cases of fractures about the elbow and a report of the end results in fifty two cases

The fractures were supracondy lar in 41 per cent in a6 per cent they occurred in the internal condyle in 22 per cent in the external condyle in 22 per cent in the end of the radius and in 4 per cent in the olecanon. Eighty two per cent of the patients were under 15, pears of age. The musculosparal serve was injured in three cases and the ulnar nerve in eleven.

The authors use the Jones method of reduction as u routine. The elbow is flered until the radial pulse is obliterated and then released just enough to tet the pulse come through. In order to insure restoration of the normal carrying angle the hittlefinger should be on a sagital plane with the greater tuber ossty of the humerus. Anvathesis is necessary for the reduction unless the case is seen within a fea hours after the injury. Flevion is maintained by a figure of 8 bandage. No cast is applied After two days guarded motion is begun and after ten days the hundage is removed and only a sling is used.

The end results showed normal function and appearance in 864 per cent of the fifty two cases traced. Ashburst obtained good results in 81 per

cent and Cutler and Cave in 80 per cent
I nor results were due to (1) the filling up of the

coronoid and radial fosse with cellus (2) bone block
(3) fadure to maintain the critising angle of (4)
myositis ossificans
William A Clark VD

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

# BLOOD, TRANSFUSION

Emile Well and Stleffel A Case of Marked Hemophilia In the Course of Lithiask Cicterus, Transtusions, Operation Followed by Recovery (Sur un cased grande hémophile au course d'unicrée lithi asique, transitusions, opération et guénson) Bull et mêm Soc méd d hølp de Par 19 6 xili 55

The authors report the case of a 27 year old wom an with infectious bihary lithiasis causing a fehrle painful and intense jaundice, bleeding from the nose and guns, large exchymoses on the thighs following subcutaneous injections, and numerous purpuric spots due to scratching. The patient's history and that of her family were negative as regards bleeding. The venous blood was unclotted and the yellow plasma still fluid after three days. The coagulation time was normal (two to four minutes) but the carpicly beld without stopping for one day. As in hemophilia, the addition of one drop of fresh human serum to the patient's hold in titro caused coagulation. The red cell count was 1900,000 and the

hæmoglobin value was 45 per cent

Two bours after a 300 c cm transfusion, the blood clotted in fifteen minutes and the retraction of the clot was better. Three days later, the hleeding time was fourteen minutes and the coagulation time one hour and seventeen minutes. Six days later the red blood cells numbered 2,300 000 but the hæmoglobin was still 45 per cent. Nine days later, a second transfusion in which 350 c cm was given, caused a febrile reaction. The next day the bleeding time was four of five minutes.

The marked improvement in the blood lasted for only a few hours after each transfusion, but some permanent benefit resulted as the clotting time ultimately fell from three days to one hour, the red blood cells increased from 1,00,000 to 4,000,000, and the harmoglobin increased from 45 to 60 per cent

The infection and the fever gradually decreased Following a third transfusion, in which 250 ccm was given incision and drainage of the hile passages with the removal of twelve stones from the gall bladder and one large stone from the common duct was done. No bemorthage occurred. The patient made a rapid recovery, with the return of the hlood to normal. After the operation the bleeding time was six minutes clotting without retraction occurred in five minutes, the red blood cells numbered 8 800 ooo, the white blood cells numbered 800 ooo, the white blood cells numbered 800 ooo, the white blood cells numbered 800 and the hemoglobin increased to oo per cent. There was abundant drainage of hile. The jaundice cleared up the stools became normal, and the patient's weight increased.

Although hemorrhage occurs in acute bepatic in sufficiency, the authors had never previously noted

adelay of coagulation for a long as three days except in the experimental hrudin blood of rabbits. The lithiasic uterus and the biliary infection in the case reported caused an acute symptomatic, not a per manent hemophilia

In another case, that of a patient with tubercu losis and fatty cirrhosis of the liver, the authors found a coagulation time of twelve hours

WALTER C BURKET M D

#### LYMPH VESSELS AND GLANDS

Jacobson, J The Treatment of Tuberculous Lymphadenitis by Cinnamic Benzyl Ether (L éther benzyl annamque dans le traitement des adénites tuberculeuses) Bull et mêm Soc mêd d hop de Par 1925 Xi 1329

The favorable results obtained with cinnamic benzyl eiter in the treatment of tuberculous of the skin and mucous membranes led the author to use it in fourteen cases of tuberculous lymphademix. The technique was the same as that employed for lupus by Daner (Comptes rendus de la Société de der

matologie February 9 1922)

Except in the case of one patient who abandoned treatment after the first series of injections, a cure was obtained in an average of three months. In four cases, puncture or filiform drainage was necessary. The progress of the cure is indicated by a reduction in the periglandular induration. Ultimately, the glands soften and discharge or recorption occurs. The final result is a small fibrous nodule.

Cases of varying degrees of severity were treated In some of them the masses attained the size of a small orange. The patient who abandoned treatment showed considerable improvement after the

first series of injections

The treatment described is suggested as a valuable adjunct to radiotherapy and surgery. It facilitates surgery by reducing the periadentis and mobilizing the glands. It everts a favorable influence also on associated lesions wherever located. No general reactions have been observed following its use

ALBERT F DE GROAT M D

Roffeston Sir H., Wooibridge G. H. Fletcher H. M. Pugh L. and Others Hodgkin s Disease in Man and Animals Proc. Roy. Soc. Med. Lond. 1926 xix. Sect. Med. & Compar. Med., 39

ROLLESTON The cause of Hodgkins lympho granuloma is unknown The histological picture de scribed by Andrewes and Reed is characteristic The condition bas been regarded as (1) a neoplasm (2) a transitional process between a neoplasm and an inflammatory formation, and (3) an infective granuloma due to an unknown virus

Lymphadenoma occurs usually first in the cervical glands. It very rarely attacks the lymphoid tissue of the alimentary canal. There is no satisfactory evidence that Hodglan is disease has ever been trans mitted to animals. The differentiation between this condition and endothelioma is difficult. Early tuber culous adentitis without necrosis or cascation may similate it.

WOOLBEIDGF Holgkin's disease is rare in all species of animals except the dog. It appears to be an infective process rather than a neoplasm. The causal organism whatever it is has a low wrutence. All lymphatic tissue except that in the bowel is enlarged. The course of the disease seldom exceeds too or three months. The characteristic histological picture in man has not been observed in dogs. There is no satisfactory, treatment. The best results are obtained with arsence and mercury.

FLETCHER Hodgkin's disease appears to be due to infection perhaps by a spirochete as it is accompanied by fever and responds to arsenic limitude.

and purpura are occasional skin manifestation. The fever is usually very irregular and occasionally of the relapsing type. The results of \( \sigma \) ray and ar senical treatment are most striking but as yet no permanent cure has been obtained.

PUGH Hodgkins disease is most frequently con fused with one of the leukermas tuberculosis or malignrist disease. No case in an animal has re sembled the condition in man as described by Andrewes and keed

STEWART Attempts to cause Hodgkin's disease un monkeys have failed. In the later stages the condition resembles a neoplasm. It is difficult to diflerentiate be better displaying the subsequent of the description of the subsequent of the conchanges in I pumphadenomy are so slight to so very variable that they are of practically, no value in the diagnosis.

THURSFIELD The disease called lymphadenoma in animals differs from the lymphadenoma occurring in man Cyril J Glastel M D

# SURGICAL TECHNIQUE

# OPERATIVE SURGERY AND TECHNIQUE, POSTOPERATIVE TREATMENT

### Palmer L J Surgery in the Presence of Diabetes Mellitus \orthogonal orthogen Med 1926 xxv, 196

The mortality of operations upon patients with diabetes mellitus has been decreased by advances in the chemistry of this disease and in the science of nutrition, better cooperation between surgions and internists better surgical technique the use of less harmful anreshetics, earlier operation, and better hospital facilities

nospitai racinci

When the taking of liquids by mouth is prevented for a considerable time by the nature of the operation or by vomiting it may be necessary to give glucose by rectum. When the surgical procedure or diarrhora prevents the rectal administration of glucose its intravenous administration must be resorted to. When nutrition can be given by mouth liberal amounts of orange juice and oatmest gruel will usually supply sufficient glucose for buffer pur

poses

When it is possible to devote a day or two to the preparation of the diabetic patient for operation glycamia should be reduced to at least "oo mgm per too c cm and the alkali reserve raised to at least fifty volumes per cent. Particularly in the presence of infection and in the cases of elderly patients care must be taken not to restrict the carbohydrate in take to such an extent that the glycogen stores will be depleted. In such cases more insulin should be given to remove ketone bodies lower the glucose content of the blood and increase the glycogen storeserve. The protein intake should not be less than usual but the fat intake should be reduced to a very small amount

Chloroform should never be used Ether also should be avoided if possible Nitrous octde and oxygen alone or combined with local anæsthesia in duced by infiliration or preferably by nerve blocking is very satisfactory. Spinal anæsthesia is probably the safest from the standpoint of the diabetes. Ethy lene vilos is entirely satisfactory.

CARL R STEINLE M D

Bigger I A Hypertonic Sodium Chloride Solution Intravenously in the Treatment of Extensive Superficial Burns South M J 19 6 xix 30

The salient symptoms associated with super ficial burns are explained by the presence of a toxin in the blood. In sever, burns, concentration of the blood has been demonstrated in some instances and it is probable that such a change occurs in the majority of cases of extensive lessons.

Robertson and Boyd were able to demonstrate primary and secondary proteoses in burned animals When certain protein derivatives are injected intra venously, the concentration of the blood is in creased. It therefore seems possible that the in creased concentration found in severe burns is the result of the absorption of protein decomposition products due to the injury of the tissues.

Cannon considers low blood pressure the important factor in shock and believes that this is the result of a decrease in the blood volume. If this theory is correct a promot increase in the volume of the

blood is of importance

Hypertonic sodium chloride solution given intratenously increases the blood volume promptly and for a considerable period of time. Therefore the author believes that its use is rational in the treat ment of severe burns. It is proposed not as a substitute for debridement or the forcing of fluids, but to prepare the patient for debridement.

CYRIL J GLASPFL M D

# Smith F A Rational Management of Skin Grafts

The best sources of skin for grafting are the upper arm of the male and the thigh of the female. When soft hairless skin is required the graft should be taken from the inner aspect of the limbs. There is no special advantage in choosing skin from an area of tension such as the deltoid, nor in obtaining it from

the prepuce or scrotum

It is obvious that a graft is parasitic and during the first two or three days after its transplantation it must be muntained by the absorption of tissue juices or lymph. Hence, its intercellular spaces must be open to the circulation of lymph in order that nourishment may be carried to its cellular elements. It must be cut accurately to size maintained at normal tension accurately fixed by carefully placed sutures and accurately approximated to its base by a proper even pressure. The slan must be free from fat. In the use of various pressures in the application of slan grafts. Smith bas found that for full thickness grafts a pressure of 30 mm. Hig is very satisfactory.

This same care is not vital to the success of split skin grafts. A simple technique consists in smearing the source of the graft with a tim layer of vaseline, which materially facilitates the cutting of the piece, arranging the skin, raw surface outward, on dental impression compound molded to the part to be covered and applying this with a firm bandage without measuring the pressure.

The grafted part should be immobilized for several days. Histological descriptions of contracted skin skin under normal tension, and skin on the second, fifth tenth, and twentieth days after grafting are given.

Carl R Strinke MD.

#### ANÆSTHESIA

Mecker W R Recent Developments in the Tech nique of Regional Anæsthesia Clin Med 1926 xxxiii 225

Local anasthetic procedures may he divided into terminal infiltration field block and aerve block Field block sepecially applicable to the removal of superficial being tumors and for anasthesia of the fingers toes and metacarpla and metatarsal bones Circular field block of the terminal rectum affords satisfactory anasthesia of hamorthoulectomy. Field block is satisfactory also in the repair of the average herms.

Paravertehral block of the spinal nerves as of great est value when it is applied to cervical and sacral nerves Block of the cervical pleus by the lateral oblique route affords adequate anæsthesia for opera tions on the neck such as thyroidectomy laryngee tomy and the removal of thyroglossal duct cysts and diverticula of the exophagus

In block of the sacral nerves a low sacral injection climbured with transacral injection of the later all forzimna affords most constant anæsthesia. By this method the entire pelvic floor and the viscera are anæsthetized so that the kraske operation perineorhaphy or perineal prostatectomy may be periorned pamiessly. With the addition of suprapubic field block resection of the bladder and suprapubic prostatectomy may be done.

Block of the sphanchau nerves does not afford sufficient ansisthesia for the performance of abdominal operations. If for any reason general anasthesia is not to be employed these operations are best performed with the use of terminal infilitation methods combined with deep preliminary narcoss and followed by very gentle postoperative management.

# PHYSICOCHEMICAL METHODS IN SURGERY

### ROENTGENOLOGY

Wetterstrand G A Roentgen Therapy in Surgical Tuberculosis Acta radiol, 19, 5 11, 5 28

The author gives an account of the experiments he has carried nut and the results he has obtained in the roentgen treatment in surgical tuberculosis. He believes that this treatment is of the same value as inter procedures now in use provided the priper precautions are taken and has the added advantage that it caules the patient less expende. The best results are given hy small do-es—about one third the crythema do-e, with an upward allowance in from 20 in no per cent.

Most of the cases reviewed were ca.es of tubercu lows lymphomata. The stage of the condition has little influence upon the results, but the spreading and fistulous forms require more prolonged freatment than others. Local irritation must be avoided. A recurrence or infection of other glands occurred in 4 per cent of the cases, not dangerous skin changes.

in r2 per cent and telanguectases in 3 per cent There was no necrosis

The treatment proved extremely effective in tubereulous peritoritis without pulmonary or intestinal complications. Or twenty four such cases, fifteen remained cured after from two to five years and temporary improvement was obtained in five

Tuberrulosis of the female genital organs reacts extremely well to roentgen therapy. In the author's opinion roentgen irradiation is the best treatment for sinch cases. Of ten patients whose condition seemed hopeless when the treatment was begun four are well three have been free from symptoms for two years and two who are still under treatment have been beaufited. One cannot be traced. Cases in which operation is performed should be given post operative rootigen irradiation.

The anthor believes that in the treatment of tuber culoss of the male genital organs too little attention has been paid to coentgen therapy. His nine patients with this condition have been restored in health

Cases of fistulæ after nephrectomy puncture canals infected with tuberculosis, and secondary foci of the disease in the soft tissues have a good prognosis.

Roentgen irradiation is gaining favor al.n in the treatment of tuberculosis of the bones and mints

Bardeen C. R. The Biological Effects of Roentgen and Gamma Rays. Wiscomm M J, 1976, xxv 215

Investigations based nn radio-activity have led to profound changes in some of the more fundamental theories of physics and chemistry. These are discussed at some length in correlate them as far as possible with the very imperiently understood hological effects. They arise from the radiant energy

ab-nrbed by the tissues The roentgen and gamma rays absorbed affect primarily the electrons of various atoms whose period of revolution about the central nucleus corresponds in frequency to the wave frequency in the radiant rays. Th these high speed electrons within the tissues are attributed most of the direct biological effects of radiation. They may interfere with the electrostatic tension of the colloid particles of the cell in after the molecular structure in some of the constitutions of the rolloid particles.

The part of the cell most susceptible to radiation is the nucleus. Brief mention is made if some if the experimental work by which this fact has been estab lished In general it has been found that the tissues most seositive are those which contain a relatively large amount of chromatin are in active cell division. or have great regenerative power. The cells of a raved tusue are unequally affected Regeneration takes place from the uninjured or less injured cells. the cells at rest at the time of the exposure Recov ery is possible only when the regenerative powers of a tissue equal or exceed the susceptibility to injury, when there is a low injury regeneration ratio The therapeutic value of the roentgen rays and gamma rays depends upon the fact that pathological tissues may have a higher injury regeneration ratio than normal tissues

Reference is made to the relative sensitivity of various normal tissues reported by Hirsch and to the relative radio-sensibility of pathological tissues as given by Ewing. The latency in tissue effects following radiation is commented on, and various direct and indirect factors having a bearing thereon are mentioned. Hirsch's table showing the latency period of pathological tissues is included.

Favorable effects after suitable irradiation may result from direct destruction of tissue cells or from indirect local nr systemic reactions such as lympho cytosis or localized fibrosis. Tone substances may be produced. If these are not in excess they may stimulate chemical and morphogenic defense reactions which fay or normal as approsed in pathological tissues. If in excess they may cause severe can stitutional disturbances. Adocute Hartyce M.D.

#### RADIUM

McHutchison J P and Brown W H A New Development in Radium Therapy Larcet 1926, ccx, 755

The authors describe a method they devised to employ the active deposit of slow change viz Radi um D and E. This deposit is found in all exhausted emanation (radon) tubes that have been prepared and remain insued in radon tubing institutes. The beta and gamma rays from Radium D and E have a

penetration sufficient to irradiate 3 mm of tissue With this penetration such lesions as capillary and superficial cavernous nævi and lupus crythematosus can be treated

Six cases are reported with a description of the technique. The results were very encouraging. The active deposit is placed upon silver or mickel.

plates of various sizes and from o z to o 4 mm in thickness

The problem of measuring the intensity of various applicators was solved in part by comparing with uranium order films by means of a beta ray electroscope. Applicators producing an erythema in from three to seventeen days were made. From the view point of the time of exposure those producing an erythema in a few days are superior. Blistering and crusting are to be awoulded.

The applicators are placed in contact with the lesion for the number of days necessary to produce an erythema. To protect the applicator from injury by mosture and friction both of which remove the missible active deposit a layer of crept de chine is placed between the applicator and the skin. The half decay neriod of the applicators is sarten years.

A J Larkin MD

#### MISCELLANEOUS

Reyn A The Efficacy of Various Sources of Light in General Light Bath Treatment 1da radiol 1025 1V 541

The author first briefly sketches the history of light treatment in general and reviews some of the

unvestigations made especially by Finsen and his pupils with regard to the power of light from different sources to penetrate living tissues. He discusses various conditions and problems connected with the treatment of surgical tuberculosis with light and points out that none of the theories so far advanced to account for the curative effect of light in this affection has proved entirely satisfactory. It still remains to be determined which rays of light are chiefly responsible for the cure

and among tresults indicate that the chemical rays and among these notably the more long waved ultraviolet violet and blue rays—are of particular importance and that the luminous red rays also play a role

The author concludes that sunlight is by far the best therapeutic light and that sanatoria for the treatment of surgical tuberculosis should be located either in Alpine country or by the sea where the sun light contains all of the beneficial rays in a high degree of intensity. Sunlight is beneficial only when it contains an abundant quantity of chemical light. In northern Lurope where most of the chemical rays of the sun are absorbed by the atmosphere during a considerable part of the year recourse must be had to retirical light.

Various sources of artificial light are mentioned. The best is the carbon are light. The lamps must be specially constructed most of those found on the market do not meet the requirements. Only direct current can be used because it is the light from the crater that is most important in the treatment of these cases.

# MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Sequiera, J. H., Cheatle, G. L. Handley, W. S. Cope. Z., and Shaw E. H. Precancerous. States. Proc. Roy. Soc. Med. Lond. 19.6 xix. Sect. Surg. 1.

SEQUIERA The skin affections which predispose to cancer are (1) congenital anomalies such as pig mented and wart; moles and verodermia pigmen tosa (2) senile changes such as senile keratom (3) local irritation due to trauma or exposure to light, the \(\text{Vays}\), heat, and chemicals (4) scars from lupus lues and burns, (5) chronic dermatoses (6) Bowen s dermatosis and (7) Paget s disease main many and extramammart.

CHEATLE Epithelial hyperplasia of the breast is either directly or indirectly concerned in the car cinoma problem but it is impossible to describe a state of dysgenetic epithelial hyperplasia that mey

tably ends in carcinoma

HANDLEY Carcinoma is always preceded by long continued chronic inflammatory changes in the sub jacent connective tissue. The lapse of time between the onset of these changes and the development of cancer may be as long as thirty years Breast cancer often follows chronic mastitis and both conditions are found most frequently in the upper and outer quadrant of the hreast Chronic lymphatic ob struction is a frequent and perhaps constant factor in the etiology of cancer. It is probable that the rise in the lymph pressure leads to overnutrition and consequent proliferation of the connective tissue Forthelial cells grow and develop normally only when they are associated in their growth with connective tissue cells

The three most important factors in the causation of cancer are (1) chronic irritation hacterial ther mal or chemical (2) lymphatic obstruction and (3)

an acid reaction of the tissues

COPE The term 'precancerous can be applied only to clinical conditions recognized by the naked eye. In the tongue there are three conditions of a suspicious nature (t) chronic superficial glossitis with associated leucoplakia (2) papilloma and (3) dental ulcers at the margin of the tongue

In the esophagus there are no recognizable pre

cancerous conditions

It is very probable that cancer can and occasional ly does become engrafted on simple ulcer of the stomach but this occurs much less frequently than is generally helieved

Cancer of the small bowel is very rare, but every papilloma of the small bowel must be regarded as a precancerous condition. In the large bowel cancer rarely follows ulcerative processes. There is little

evidence to prove that cancer of the colon is caused by the stagnation of howel contents due to kinks

SHAW The two chief precancerous conditions are chronic inflammation and simple new growths. All specimens of carcinoma of the breast show inflammatory changes but it appears quite evident that the inflammation preceded the new growth. A breast affected with chronic inflammation is in a precan cerous state. Many papillomata of the skin, mouth and bowel are also precancerous conditions.

CARIL I GLASPEL M D

Morton J J Cancer of the Skin Arch Surg 1926

The three main types of skin cancers are the basal cell and squamous cell lesions and nævoid and mela notic growths. The last named resemble the squam ous cell type but metastasize quickly and are rapidly fatal.

Morton discusses at length only the basal cell and squamous cell types The bistories of twenty nine cases are given and illustrated by photographs or drawings

#### BASAL CELL EPITHELIOMA

Basal cell cpitbelioma is a lesion of advanced life the average age at which it appears being 55 years. Males are far more frequently affected than females and blondes more frequently than brunettes Senile keratoses the most common precancerous condition result in hasal cell growths. Persons ey posed to sunhight and the weather are predisposed Basal cell cancer never arises in a normal skin being always preceded by a dermatosis. One of its common antecedents is the seborrhene wart.

Although this type of cancer may occur on the extremities and trunk its most frequent site is above

the clavicle

Pathologically there are four types of hasal cell cancer—the flat the nodular, the ulcerative and the annular. All are characterized by induration and hardness of the edges and the presence of the translucent pearly white nodules which are pathog nomonic of rodent ulcers. The nodular types even trially ulcerate forming yellowish crusts with dry scales. The annular type which is rare is char acterized by a whitthy yellow healed central area surrounded by a raised pearly edged growth or scabbed ulceration.

Bisal cell cancers are often multiple and their growth under the skin is much more extensive than is indicated by their surface appearance. On cross section the hasal cell cancer is characterized by a smooth surface limited invasion of the subcutane nus tissues and alwebt much smaller than those of

Micro copically the cells of the basal cell cancer have all the staining qualities of the hasal layer of the skin Mitotic figures are easily found. After the corium is invaded a great variety of forms may be assumed in the arrangement of the cells—sold masses branching out growths hollow columns etc.

The future of the basal cell cancer is Chronic The future of the basal cell cancer is Chronic Fig. 19 and the fitted per section of the fitted per s

It is the hasal cell cancer which has established the reputation of the cancer quacks. Cures have heen claimed for a great variety of methods early cases Morton regards irradiation with radium or the & rays as the method of choice. He has found however that a second or third course of treatment may he necessary helore a complete cure is obtained Growths which do not yield to two or three courses should be subjected to surgery Advantages of knife incision over radiation therapy are that it removes the affected tissue completely in the minimal amount of time and allows an accurate diagnosis. Attention is called all o to Clark's method of desiccation by monopolar endothermy a method which is a distinct advance as it can be used on the eyelid and inner canthus

#### TRANSITIONAL TYPES

Following his discussion of hasal cell cancer the author reports two cases which he helieves may represent transitional forms hetween the basal cell and squamous cell cancer

#### SQUAMOUS CELL CANCER

Except for certain forms which arise from the scars of lupus vulgaris squamous cell cancer like basai cell cancer is also a lesion of advanced hie It is more common than the basal celf cancer and o curs more frequently in men than women. No ractal immunity to this cancer has been noted

Although the etiological agent is not known it is evident that injuries mechanical irritation derma toses scars ulcers and the action of certain chemicals and light rays play an important rôle in the causation of the lession.

Squamous cell cancer may occur anywhere on the surface of the body but its most common site is the lower lip. The two principal varieties are the papil lary and the deeply infiltrating ulcerative. The papillary form rapidly produces a projecting nodule of considerable size which ulcerates early. The ulcer becomes covered with a dry crust which drops off now and then and is reformed. The edges of the ulcer are trieggular and midurated and if the crust is

removed the translucent grayisb pink nodules of malignant tissue can he seen. The infiltrating type forms no external nodule to speak of producing simply an ahraded surface with jagged solid outlines and very extensive deep induration. The ulcer may have a very innocent appearance.

Squamous cell cancer may result from occupa tional irritations causing warts patches of hyper

keratosis and skin atrophy

Microscopic study abovs the pink staming angular cells in varying degrees of cornification forming more of less complete epithelial pearls. The more rapid the growth of the squamous cells the less the chance of differentiation into the comined type Broders has found a hasis for prognosis by comparing the degree of reversion to type with the climical course of the disease. The greater the degree of cornification the less virulent the fession

The squamous cell cancer produces metastases while the basal cell cancer does not Unfortunately there is no symptom which sends the patient to the physician carly. The differential diagnoss most essential to make is between cancer and syphilis If there is no response to antisyphilis drugs within the days the leason must be considered malignant.

As squamous cell cancer metastastes early the surgeon should remove the primary lesion with a wide margin and the lymphatic glands draining the area in one block.

area in one block.

Radiotherapists agree almost unanimously that squamous cell cancer is much more resistant to radiation than basal cell cancer. This should dispose of the tbeory of selective destructive action on the cancer cells I figure, to and shrows of the lymphstic.

channels has no demonstration in fact. Quick says

By external radiation alone, we do not feel we have
ever been able to destroy completely fully developed

epidermod carcinoma in the cervical nodes. In the authors opinion a combination of surgery and radiotherapy is desirable in every case. The treatment of choices removal of the primary growth two electrocoagulation or cautery dissection and the use of emanation seeds in situ. Whenever possible all malignant itsue should be removed.

Squamous cell cancer of the scalp and forehead does not require removal of the regional glands but in cancer of the face cheek, cyclid chin or nose the glands should be removed with the lesion

PAUL W SWEET M D

AUL W GWEEK

Nichols J II Goodhue F W Champion M E Bigelow G II and Lombard II L Cancer in Massachusetts Boston M & S J 1926 exciv 383

Cancer is increasing but there are indications that the peak of the curve may be nearly reached. In the United States. Massachusetts has the highest death rate from cancer.

The cancer rate increases with the increase in the density of the population up to a population of about 4 000 per square mile and then remains nearly stationary

The average length of life of persons v ho are operated upon for cancer and ultimately de from the condition is twenty two and eight tenths months, while that of persons who die from the condition without operative treatment is twenty months. The average duration of the condition from its onset to the time of operation is ten and three tenths months The average patient seeks the physician's advice eight months after first noticing the symptoms

As about one fourth of cancer deaths occur in hospitals there is need for additional beds for patients SAMUEL KARN M D

suffering with cancer 1926 XXV, 124.

Crile G W

The Contact of the Surgeon with the Problem of Cancer J Michigan Stole M Ass

Precancerous lesions should be removed com pletely when possible or given no treatment at all

For established cases of cancer Crile advocates radical operation if the condition is operable and palliative surgery or radiation or both if it is inoper able The treatment indicated for cancers of the various organs and tissues he summarizes as folfows

s Skin radiation except in cases of pigmented

moles, which should be excised

Buccal surfaces mucous membranes of the mouth, excision, early cancer of the tongue, electric coagulation or the use of the actual cautery, early cancer of the lip, radium late cancer of the tongue or lip excision plus block dissection of the glands

Larynx intrinsic carcinoma, larvngectomy plus postoperative radiation extrinsic carcinoma block dissection plus radiation if possible, tracheot

omy plus radiation if inoperable

4 Thyroid thyroidectomy plus radiation if operable, decompression plus radiation if inoperable. prevention by excision of fetal adenomata

Esophagus gastrostomy for feeding plus radiation.

6 Breast radical operation The value of radia tion is still subjudice

7 Stomach resection if possible gastro-enterostomy if inoperable

8 Intestines sigmoid and rectum, colostomy plus radical operation if operable, colostomy plus radia

tion if inoperable 9 Uterus for the fundus, radical operation for

the cervix, radiation. 10 Genito-urinary organs operation plus post operative radiation in selected cases

SHIRLEY C LYONS M D

#### DUCTLESS GLANDS

Kuestner H Investigations of the Changes in Internal Secretion After Extirpation of the Uterus Operative Castration and Roentgen Castration and in the Normal Climacterium (Unter suchungen neber die innersektetorischen Veraenderungen nach Uteru extirpation operativer Kastration, Poentgenkastration und im normalen Klimaktenum) Moratiche f G bartih u Gyruck 1923 IXX, 284.

The anthor investigated the changes in internal secretion after operative removal of the uterus operative castration, and roentgen castration and in the normal chmacterium to determine whether the menstrual duturbances of the menopaule which are manifested chiefly by increased or irregular men struction are best treated by operative removal of the uterm or \ ray treatment of the ovaries

The function of the glands of internal secretion was tested by the Abderhalden method as simplified hy Lattge and you Mertz By means of this test only a pathological change in the internal secretion of a gland is shown Normal function and complete absence of function cannot be demonstrated. The procedure consists in mixing the patient's serum with a previously prepared extract of the organ and main taining the mixture at a temperature of 37 degrees for twenty four hours. When changes have occurred in the gland, substances resembling amino acids are formed These are extracted with 96 per cent alcohol

It was found that the serum of women in the normal climacterium and those who had been operatively castrated had no reaction to ovarian substance The results were similar in the twenty-one cases to which only the uterus had been removed. Following castration with the V-ray the serum of twenty-one of twenty three women showed a postthe Luttge von Mertz reaction to o aman substance

and can be demon\_trated by the ninhydrin reaction

As the Luttge von Mertz reaction to ovarian tissue was found still positive even four years after the Y ray exposure, it probably indicates a hiological change such as is associated only with very severe disturbances

Since roentgen castration not only destroys the normal function of the ovary but replaces it by what is apparently a pathological function, it is evident that great care is neces, ary in judging the indications for roentgen treatment and that extirpation of the uterus is preferable unless some other ailment such as cardiac failure struma, or diabetes renders opera tion particularly dangerous SCHUMACHER (G)

# BIBLIOGRAPHY of CURRENT LITERATURE

NOTE -THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE OF THIS ISSUE ON WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

# SURGERY OF THE HEAD AND NECK

#### Head

Fraumati m of the head and brain in civil practice. G. M HACKLER J Iowa State M Soc 1926 TV1 177

Discussion on fracture of the base of the skull and the car nose and throat surgeon G J JENKINS SIR C BALLANCE S SCOTT A R TWEEDLE and others Proc Roy Soc Med Lond 1926 tix Sect Otol

The diagnosi and treatment of fractures of the vault of the cranium radiating from the base I E MOINE Bull et mem Soc d chirurgiens de Par 1926 vom 8 Oxycephaly D M GREIG Ldinburgh M I 1026

XX TH 180 Report of a case of necrosis of the petrous bone with

unusual complications I W WATLYN THOMAS Proc Poy Soc Med Lond 1926 viv Sect Otol 17 An unusual break of the face W A BOYCE Laryingo

scope 1926 xxxx1 266
The reduction of luxations of the mandible after the

injection of local anæsthetics into the masseter muscles O WIEDHOPF Muenchen med Wchn chr 1925 lxxir 2007

Reduction of dislocation of the lower jaw with local anxs thesia D KULENKAMPFF Muenchen med Wehnschr 1925 lexus 229 Carcinoma of the maxillary antrum of twenty years

duration A R KILGORE and W E CHAMBERGAS Surg Clin N Am rga6 vi 5r3

Late radionecrosis of the mandible P SCRILEAU Bull et mem Soc nat de chir 1926 ln 251

A large salivary calculus which had undergone spon taneous fracture leading to eburnation of the Froken sur faces Sir J Berry Brit J Surg 1926 vir ,63
General and special surgery M kirschier and O NORDMANN Part 6 vol 1v Surgers of the mouth the salivary glands and the throat T BREUNIAC Surgery of the larynx and trachea J SOLRENSEN 1925

Injuries and surgical diseases of the mouth and pharynx of the neck including the salivary glands of the resopha rus and of the larynx and trachea P (LARRMONT 1026) l eipzig Thieme

Urban & Schwarzenberg

Recent mechanical injuries to the eyes their examina tion and management E Jackson Northwest Med 1926 XXX 138 Visual problems in regard to flying and industrial fatigue from a service standpoint L CLEMENTS

Proc Roy Soc Med Lond rozó viz War Sect 15 The use of cross cylinders in refraction \ R HLEST Texas State J M 1926 xx1 ,04

Regular astigmia E S Munson, J Ophth Otol & Laryngol 1026 XXX 122

How to avoid toxic symptoms from homatropin W. H.

CRISP Am J Ophth 1926 3 5 Ft 270 Contributing factors in failure to correct convergent concornitant squint L C 1 FTER Am J Ophth 19 6 3 5 14 253

I rophoria -analysis and treatment of 167 ca es C 1 LOUNG Airginia M Month 1926 lin 25

Miners nystagmus F FERGIS Glasgow W J 1926 n s van 161 Glaucoma simplex and optic atrophy V k HART

J Ophth Otol & Laryneol 1926 TXT 134 The operations for glaucoma S A DURR Am J Ophth 1926 38 17 174 [87

Neoplasms of the lachrymal gland with a report of three cases A O Princet Arch Ophth 1926 ly Malignant tumors of the lachrymal sac T Strapa am

A U Zavalfa Semana méd 1925 xxxii 1100 The re ult of treatment by artificial light on phlyctenu lar and other tuberculous lesions of the eye A B NUTT Brit J Ophth 196 ₹ 138

Ocular findings in the postencephalitic syndrome Cular accidents of sinus origin R CLEMENT Presse

méd Par 1926 xxxiv 93 Metastatic ophthalmia after febrile abortion W

1441 146 I annaud s conjunctivitis \ Dr. \ J \ Michigan State M See 1926 xxv 183

Lycision of the superior tarsus and conjunctiva in the treatment of trachoma G 1 Iteu. Brit J Ophth 1626 ₹ 18€

Skin grafting in acute symbler haron J M Ball Lancet 1026 ccx 863

An epithelial cost of the sclera C H Usinga Brit J Ophth 1926 x 1,7 A uctron method for the removal of foreign bodies on

the cornea S ISRAEL Am J Ophth 1926 3 S rs 271
A study of the influence of protein therapy on expen mental staphylococcus infection of the cornea of the rabbat B W Key Surg Gynec & Obst 1926 vin 473 The treatment of time burns of the cornea with 10 per cent neutral ammomum tartrate E Wolff Bnt J Ophth 10 6 x 196

A dermoid tumor of the corneoconjunctiva A B DYRMAN Northwest Med 1926 XXV 206 Dendratic degeneration of the cornea E ADROGUÉ [89] Rev Soc argent de oftalmol 1925 1 33 On the question of phaco anaphylactic andophthalmiti

Noerre Arch Ophth 1926 lv 103 [89 Congenital ectopia lentis L W Fox Am J Ophth 1026 35 IX 257

Spontaneous absorption of mature senile cataract A BALLANTYNE Brit I Onhth 1926 7 202

190

Immature cataract in a myope S L Ziegler Atlantic M I 1026 XXIX 462

Diplopia lamp E N Hugnes Brit J Ophth 1026

Limitations of slit lamp microscopy of the living eve and the possibility of overcoming them L KOEPPE Am J 1901 Ophth 19 6 3 s 1x 157 A breath screen for slit lamp work C STOCKARD Am

J Ophth 1926 3 5 1x 73

Retinoscopy with cylinders W D ROWLAND Ophth Otol & Laryngol 1926 xxx 139

Color acuity its importance in the early diagnosis of the diseases of the conducting paths and centers and di eases M E Brows New Orleans of the neuro-epithelium M & S J 1926 lxxviii 671

Crossed quadrant hemianopsia C H FELIX But J

Ophth 1926 v 191

The frequency of metastatic carcinoma of the choroid C H Usher Brit J Ophth 1926 v 180

Retino choroiditis juxtapapillaris report of two cases with a suggestion as to the etiology and treatment W G

HARRISON South M J, 1926 XIX 314 Discussion on optic neuritis in its relation to sinusitis

clinical case R A GREEVES P WATSON WILLIAMS \ L TURNER and others Proc Roy Soc Med Lond 1026 viv Sect Ophth & Laryngol 85 A case of retrobulbar neuritis following a septic wound

T H BUTLER Brit J Ophth , 1926 v 184
Intra orbital anasthesia M D Icove Am J Ophth

1926 35 17 260

### Еаг

Investigations regarding the function of aural cerumen E CREED and V E NEGUS J Laryngol & Otol 10 6 til 223 1901

Aural quackery and p eudo-medicine A J CRAMP Ann Otol Rhinol & Laryngol 1926 7773 01 A new method for testing hearing S Cottes and D

NUSSBAUM Arch Otolaryngol 1026 III 242 [91] A clinical and experimental study with some physical agents in partial deafness preliminary report HOLLENDER and M H COTTLE Arch Otolaryngol 1026 111 338

Is a differential diagnosis between middle and internal ear deafness possible? A G Pohlman and F W Kranz

Laryngoscope 1026 xxxx1 280

Report of three otological cases from the otologyngo logical service of Greenpoint Hospital Brooklyn BRAUNSTEIN and M J GOTTLIEB Am J Surg 1926

xl 83 An unusual case of tumor of the custachian tube | I G HUNT Arch Otolaryngol 1926 nt 363

Cholesteatomatitis M METZENBAUM and O EISINGER Arch Otolaryngol 1926 III 353 Scarlet fever otitis media H R Souper J Laryngol

& Otol 1926 xl1 233

The diagnosis of tuberculous otitis with the report of a case M E LAHN and S J PEARLMAN Laryngoscope 1926 XXXVI 299

The pathology and symptoms of lues of the internal ear A GRUENBERG Ztschr f Laryngol Rhinol (etc.) 1025 11, 27

Lilicacy of ether in the treatment of suppurative otitis media ( B Mc VULIFFE Med J & Rec 19 6 CXMII

Fistula of the semicircular canal 5 Scott Proc Roy Soc Med Lond 1926 viv Sect Otol 18

Acute diffuse suppurative labyrinthitis operation and recovery S IGLAUER Cincinnati J M 19 6 vii 98

A case of double vestibulotomy H Law and G Bewley Irish J M Sc 196 p 181

Middle ear and mastoid infections R J TIVEN

Med Chn N Am 1926 IV 1283

Gradengo's syndrome in mastoid disease report of a case H DIVIENTASS Arch Otolaryngol 1926 iii 349 Mastorditis in diabetes complicated with diabetic facial paralysis E M SEYDELL Ann Otol , Rhinol & Laryngol 1926 TEXT 181

Three cases of mastoiditis complicated with bacteræmia J V F CLAY J Ophth Otol & Laryngol 19 6 XXX 142 Acute mastoiditis with complications Atlantic M J 19 6 TXIV 457

Three cases of suppuration in the mastoid cells with an intact tympanic membrane H B Tawse J Laryngol & Otol 1926 th 231

Anatomical and surgical consideration of certain cervical abscesses complicating mastorditis report of cases I D Kelley Jr Ann Oto! Rhinol & Laryngol 1926 xxxx

Bilateral mastoiditis in twins accompanied by dentition and complicated by facial paralysis report of cases J M MAYER Laryngoscope 1026 VCVVI 305 Indications for masterd operation S G DABVEY Am

J Surg 1926 tl 81

Herpes zoster oticus and allied conditions T GLTHRIE Lancet 10 6 ccx 710

The pulse curve in diseases of the ear and intracranial complications NUEHSMANN Zischr f Hals- Nasen u Ohrenheilk 10 5 ttl 522 562

### Nose and Sinuses

Khinoplasts with a silver framework W A Bogon ODIZAN Zentralbl f Chir 19 5 lin 2830
Plastic surgery of the nose A G BETTMAN Med J

& Rec 1926 CXXIII 417
The development of deviation of the septum O Hirsch

Monatsschr i Ohrenh 1925 lix 1231 A foreign body in the nasal chamber F E MAGEE

Atlantic VI J 1926 TXIT 460 Complete unilateral congenital bony atresia of the post nasal space P II DECKER Atlantic M J 19 6 xxix

The treatment of the common head cold F N SPERRY

Ann Otol Rhinol & Laryngol 1926 xxxv 10 The atmospheric factor in the causation of colds W A Wells Ann Otol Rhinol & Laryngol 19 6 xxxv 190
Intumescent rhinitis and sinusitis M V FRANK I

Michigan State M Soc 1926 xxv 185 The diagnosis and treatment of paranasal sinus infections in infants and young children under ethylene anas-

thesia L W DEAN Laryngoscope 1926 TXXVI 257 Puncture irrigation of the sphenoidal sinuses with a new instrument A LOBELL Laryngoscope 1926 XXXVI 2/0 Regarding ethmoid infections II McValGHT Surg

Clin N Am 1926 vi 571 Plastic methods of endonasal removal of the ethmoid

E SCHLESINGER Ztschr f Laryngol, Rhinol (etc.) 5 vay 58

The diagnosis and treatment of maxillary sinusitis H W OULLS New Orleans M & S J 1926 Ixxviii, 667 Puncture of the maxillary sinus S L Ruskin I aren

go-cope 19 6 XXVI 119 [91] Hyperplastic maxillary sinusitis MITHOEFER Laryngoscope 19 6 vxxv1 137 [91]

Sarcoma of the antrum \ S KAUFMAN Atlantic M 1926 XXIV 463

Combined operative and irradiation treatment of can cer of the nose and accessory sinu es W Klestadt and II MARTENSTEIN Beitr z klin Chir 1925 CETTHE

The use of radium and the \ rays in the treatment of malignant diseases of the paranasal sinuses D Quick Surg Gynec & Obst, 1926 xlii 462 [93]

#### Mouth

The management of harelip II MEYER Beitr z Lin

Chir 1925 CXXXV 136 The closure of congenital clefts of the hard palate A CAMPBELL Brit J Surg 19 6 viii 715
Palatine obturators A BLEICHSTEINER

Stornatol 1925 van 786

Stomatology and the medical profession J L KELLY Clin Med 1926 XTXIII 244 An avery exostosis of the mandible simulating a tooth F COLEMAN I FOR Roy Soc Med Lond my Sect

Odontol 37 Abnormally shaped teeth from the region of the pre

150

maxilla SIRF COLYER Proc Roy Soc Med Lond ro26 xix Sect Odontol 39 Changes in the teeth in congenital lues II PPLUEGER

Arch f Dermat u Syph 1925 cxlix 493 Dental radiography II C Nort Med J Australia

1026 1 384 Dental sepsis and septicarma E M BROCKBANK Brit M J 1926 1 562 [93

Dental epsis its nature and systemic effects S H Woons J Roy Army Med Corps Lond 1926 1v 240 The relative frequency of streptococcal types in peri-apical infection J L T APPLETON JR C A BRYANT and E ZEBLEY Dental Cosmos 1926 EVIII 336

Pyorrheea and alveolar atrophy B Gorriges 1925 Berlin Urban & Schwarzenberg

Alveolar foct of infection and their conservative surgical treatment E M STANSBLRY J Lancet 1926 the 128
A review of our present knowledge of the pathology and roentgen diagnosis of periapical tooth infection. K II Thoma. Boston M & S J 1926 exciv 768 The relation of dental infection to the mandibular canal

O HUEBNER Deutsche Monatsschr f Zahnh 1025

Mandibular anæsthesia J M MUELLER Deut-che Monatsschi i Zahnh 1925 xlm 822 So called surgual extraction of the teeth L Moster

Presse méd Par 19 6 xxxiv 404 Tooth extraction and spontaneous fatal hamorrhage

I KROIT Arch f klin Chir 1925 CVXXIII 389 The localization and removal of foreign bodies in the oral cavity S W A FRANKEN Dental Co mos 1026 lavin 228

The chemotherapy of singivitis 1 A Lousier Dental Cosmos 1926 Ivviii 354

Common warts of the mouth W D Davis J Missouri State 31 Ass 1026 xxiii 144 Lingual quinsy G B Jonson Atlantic M J 1926

TTIX 459 The treatment of carcinoma of the tongue D Quies Brit J Radiol 1926 xxxi 81

Radium treatment of cancer of the tongue and ris secondary glandular involvements C REGAUD Strah lentherapie 1925 Km 73
The choi e of peneral and thesia in oral surgical pro

cedures B B PALMER Anes & Anal 1926 v 61

#### Pharynx

Progress in otolaryngology a summary of the bibl o graphic material available in the field of otolaryngology Tensils and adenoids A W PROETZ Arch Otolaryngol 2026 HI 365

Globus hystericus frequently a sexual neurosis I B Porrs Ann Otol Rhinol & Laryngol 1926 txxy 213 Aberrant pulsating ve sels in the pharyngeal wall. If

DUPUY Laryngoscope 1926 xxxvi 283
The treatment of Vincent's angina C E M Fischer Chicago M Rec 1926 vlvisi 117

The mucous glands of the palate in relation to the upper ole of the tonsil H L BAUM Ann Otol Rhinol & Laryngol 1926 XXXV 87

Chronic tonsillar infections in adults H HAYS Clin Med 1926 xxx111 256

Tonsillomycosis A Castellant New Orleans M & S 1026 IXXVIU 0<1

Systemic infection following expression of tonsils F B HARDING Atlantic M J 1026 XXIV 463
Complications of tonsillectomy G B GILMORE VII

gima M Month 1926 lin 55
Post tonsillectomy hamorrhage due to atropine C W

JENNINGS Laryngoscope 1026 xxtv1 287

# Neck

Harmorrhagic cysts of the neck V Juga Policlin Pome 1025 YEAR SCZ Chir 501 An anatomical clinical and roentgenological study of the normal and abnormal hyord apparatus in man HARBURGER Arch internat de laryngol 1025 xxxi

Inclusion cysts of the hyomandibular region ELIASON Therap (az 1026 1 218

Neck dissections L I BARTLETT and C L CALLANDER

Surg Clin N Am 1026 vi 481 Some phases of thyroid disease F H LAMEY J Med Soc N Jersey 1026 zxni 155 Cholesterinemia and calcemia in thyroid conditions

their relation to the basal metabolism R Caster and M Schreinger Arch argent de enferm d apar digest IQ25 1 22I Inflammations of the thyroid gland J T WATER'S

Ann Chn Med road iv 628 A contribution on non suppurative chronic thyroiditis

G Hairi Arch f klin Chir 1925 CEXEVI 549
Hamorrhagic processes in the thyroid gland M
Ballin and I F Morse Ann Clin Med 1926 iv 613 Community gotter prevention and education

Ports Illinois M J 1926 xliv 316
Some phases of the gotter problem. J M HAYES

I Lancet 1926 xlv1 149 Further studies on gotter in childhood IH The gas and todine metabolism in the struma of puberty. A Eckstery

and E Mounes Zischr i kinderh 1925 zi 475 Further studies on goster in childhood IV The resorp tion of rodine in the thyroid gland A ECKSTEIN and M NUELLE Zischr f Linderh 1925 xl 488 The rodine treatment of substernal goiter in childhood

G PETENYI Montische f Linderh 1925 XXX 149 The great importance of the thyroid in relation to certain varieties of heart di ease J R Arneill Colorado Med

TO26 TO21 III Functional changes in the diseased thyroid under the influence of surgical treatment as indicated by the respiratory exchange L Guella and H L kowitz Arch f

klin Chir 1925 CTXYVII 340 Differential points between two common types of touc gotter H H Sexris Surg Clin N Am 1926 vi 529

Hyperthyroidism-its significance in otolaryngolog) I M WAUGH Ann Otol Rhinol & Laryngol 1926 XXXV IS2

Cases of hyperthyroidism simulating primary heart disease W S PRIEST Med Clin N Am , 1926 IT 1337 Principles in the management of touc goiter M E

STOUT J Oklahoma State M Ass 1926, vix, 96 The medical treatment of hyperthyroidism CLUTE and R L MASON Ann Clin Med , 1926, IN 673 Focal infections in the alveoli in hyperthyroid conditions

and their conservative surgical treatment C C MILLER Internat J Med & Surg 1926, TXXIT 153

The treatment of the acute postoperative to terms of

hyperthyroidism J ROGERS SURG, Gynec & Obst, 1926 thi 567

The prophylaxis of exophthalmic goiter I BRAM Am Med , 1926 XXXII 234

The question of Basedow's disease E Liek Deutsche Ztschr I Chir 1925, exciii 246

The clinical picture of Basedow's disease and the associated pathological and anatomical changes in the thyroid and certain other endocrine glands. H Hor. zweissig Deutsche Ztschr f Chiz, 1925 cvciii 276

The exophthalmic goiter patient and the neurasthenic H S BLACK South M & S to 6 lexenin, 212

A case of (?) royxcedema associated with exophthalmic goster R M KAR Indian M Gaz 19 6, lvs 181

An exophthalmic goiter of peculiar type C L Mix

Med Clin N Am, 1926 ix 1255 The gas exchange reactions and their significance in the pathology and treatment of Basedow's disease H PoL

LITZER and E STOLZ Klin Wchnschr, 1925 IV 2114 Exophthalmic goiter and tuberculosis J H Musser Ann Chn Med 19 6 1v 620

The X ray treatment of exophthalmic goiter M HAVES T G HARDMAN J M O CONNOR and others Lancet

1026 CCX 812

A recticle of endothelial cells in the thyroid and para thyroid W G Scorr and I H PEARSE J Path & Bacteriol 1926 xxiv 167

Gotter metastases DREESMANN Med Klin 1925

TTI 1871

A clinical and pathological study of fifty five malignant neoplasms of the thyroid gland W M Simpson Ann Clin Med, 19 6 18 643

Primary thyroid carcinoma simulating hypernephroma

W M Starpsov Ann Clin Med 1026 tv 663
Three cases of thyroid metastasis to bones with a dis cussion as to the existence of the so called 'benign metas W M SIMPSON Surg , Gynec & Obst

tasizing goiter 1926 xl11, 480 Studies on the parathyroid glands their secretions their importance for the organism and the possibility of suh

strtuting for them F BLUM 1925 Jena Fischer The transplantation of parathyroids in partial thyroidec tomy F H Laney Surg Gynec & Obst 1026 xlii.

The significance of the science of speech correction M

A GOLDSTEIN Ann Otol, Rhinol & Larvingol 1026 Closure of the glottis in rabbits E HOLZLOZIINER and

T MITSUMOTO Ztschr f Biol, 19 5 lexxiii 571

A phantom foreign body of the lary nv M C Myerson Laryngoscope 1926 xxxvi 197

Report of a case of egg shell in the larynx J I BERLIN Laryngoscope 1926 xxvv 304

Laryngeal stenosis H MEYERSBURG Arch Otolaryngol . 1926, 111 358

The treatment of chronic laryngotracheal stenosis IGLAUER Ohio State M J 1926 XXII, 218 Galvanocauterization in the treatment of tuberculosis of

the larynx L DE REYNIER Presse méd. Par 1026 xxxiv 210

Endothelioma of the larvnx C McDougall. South M J 1926 xit 317

Cancer of the larynx J E Mackenty Arch Otolaryn gol 1926 111 205 305

Cancer of the larynx in woman G FERRERI Arch internat de laryngol 1925 XXXI 897 Surgical diathermy in laryngology G B New Arch Otolaryngol 1926 iu 301

# SURGERY OF THE NERVOUS SYSTEM

# Brain and Its Coverings Cranial Nerves

New facts regarding the function of the cerebral hemi spheres 1 M ALTSHULER J Michigan State M Soc 1026 171 176

The effects of removal of the cerebral hemispheres L BINET Presse med Par 1926 xxxiv 405

Cerebral anæmia and surgical risks H C NAFFZIGER Surg Clin N Am 1926 vi 351

Head injuries Robertson N Zealand M J 19 6,

The clinical measurement of cerebral pressure BRUEN INGS Zischr f Hals, Nasen u Ohrenheilk 1925 xH, Lymphangioplasty of the inferior horn of the lateral

ventricle as a method of treating internal hydrocephalus M Sokolowski and J IRCER Zentralbl i Chir 19 5, ln 2586 A lesion of the pons varolu occurring under general

angsthesia W J McCardia and H W Featherstone Lancet 1926 cct 810

A case of pontine glioma with special reference to the paths of gustatory sensation W Harris and W D NEWCOMB Proc Roy Soc Med Lond 1026 xix Sect Neurol x

The peculiar glandular bodies appearing in the posterior lobe of the human hypophysis Noboru Teruyama Acta scholæ med univ imp Kioto 19 5 vii 433 Evidences of hypophyseal dysfunction I New Orleans M & S J 19 6 lxxviii 678

Dysostosis hypophysaria A Schueller Brit J Ra

diol 1926 txx1 156 The glandular treatment of pituitary tumors and hyper plasias W Timme Atlantic M J 1926, XXIX 427

The results in \ ray treatment of early pituitary lesions

F C GRANT Atlantic M J 10 6 XXIX 430 [98] The surgical management of pituitary lesions `H

FRAZIER Atlantic M J 1926 XXIV 435 [98] A case of endothelioma with vanthochromia LINDSAY Canadian M Ass J 1926, VI 407

Roentgenological demonstration of the extension of temporal lobe abscesses O Mayer Ztschr f Hals Nasen u Ohrenheilk, 1925 xii 534 562

The treatment of hrain abscesses with autogenous vac cane W UFFENORDE Ztschr f Hals, Nasen u Ohren

heilk 1925 tu 538 562

The question of lumbar puncture in brain abscesses and other cerebral complications G V T Borries Ztschr f Hals \asen u Ohrenheilk 1925 vii 186 202

1925 15 221

Cerebral puncture L Nurssan Med Klin 1926 Cerebral puncture FREMEL Zische f Hals Nasen u

Ohrenheilk 1925 tu 524 562
Cisternal puncture A S CHITTENDEN Habneman

Month 1926 lvi 222 Pneumococcal meningitis V M Synge Lancet 2026

ccx 761 Torula meningitis report of an additional case I B

I YNCH JR and I Rose Ann Chn Med 1926 IV 755 Other disease of brain the brain covering and the sinuses O LOERNER 1925 Munich Bergmann

Cisternal drainage in the treatment of otogenic menin gitis Coerae Zischr f Hals Nasen n Ohrenheill 1925 tu 144 202

Keport on a case of otogeme encephalitis treatment by decompression recovery D Mckeyzie Proc Ray Soc Med I and 1926 viv Sect Otal 16 The operative treatment of meningitis M MENTE

Ztschr f Hals ha en u Ohrenheilt 1025 xu 662 An operation for the removal of the sphenopalatine ganghon E C SEWALL Ann Otol Rhinol & Laryngol

1926 TEXY I Retrogasserian neurotomy with conservation of the

motor root BOURGELT Bull et mem Soc d chirurgiens de l'ar 1926 von 26

### Soinal Cord and Its Coverings

Total injection in the teeth causing transver e mychtis R L GLASS I Michigan State M Soc 1026 xxv 187 The diagnostic value of my clography with inprodol S Bau Paussak Zischr i d ges Neurol u Psychiat

1925 XCIT 453 Miselography by means of inprodol and todapin ARAUSE Zischr f d ges Neurol u Psychiat 1025

XC17 514

The danger in the u e of hpiodol in the diagnosis of obstructive le ions of the spinal canal W SHARPE and C A PETERSON I Bone & Joint Surl, 1926 vill 348 A case of intramedullary tumor of the cord removed by operation D Mc LIPINE Proc Roy Soc Med Lond razó xix Sect Neurol r

Spinal cord tumor occurring without pain or sensory change with the report of a case P 1 GLASS Am J

M 5c 1026 clyn 552

Idiopathic incontinence of urine and faminectomy BRECHOT Bull et mem boc nat de chir 1925 li 896 1981

#### Peripheral Nerves

The Stoffel operation for spastic paralysi P LEBRETON and R M CLEARY N York State J M 1926 xxvi 307

Exercised the phrenic nerve as the sole procedure in the treatment of undateral pulmonary tuberculosis I. DUENNER and M MECKLENBURG Therap d Gerena rare Ivvi 28s

#### Sympathetic Nerves

The indication for operation on the sympathetic in bronchial asthma M REHBEIN Muenchen med

Mehnschr 1925 lazu 1885 The nerves in the adventitia of the arteries an ana tornical contribution on periarterial sympathectomy B BERGGLAS Zischt i Anat u Entwicklungsgesch 1025

IXXXD 481 Late results of perifemoral sympathectomy in the treat ment of varicose useer G Boyant Chir d organi di

movimento 1925 ix 560 The treatment of traumatic osteoporosis by periarterial sympathectomy R LERICHE Bull et mem Soc nat de

chir 1026 lu 247 Observations on the relation of the sympathetic nervous ystem to skeletal muscle tonus F D Cowan Bull Johns Hopkins Hosp Balt 1926 vervut 163 The hi topathological chan es in the heart muscle fol lowing sympathectomy BRANSBLEG Russkaja klin

# Miscellaneous

Studies on the biology of the cerebro pinal fluid. The relation of the cerebrospinal fluid to the ovaries Noor Arch & Gynaek 1925 CXXVII 97
Bile pigment in the spinal fluid a case report &
Kiely and L Schier Cincinnati J M 1926 vii 86

I case of accidental perforation of the atlanto-occipital membrane A T HENRY Ann Chn Med 1926 tv

Alcoholic injections in nerve trunks and pathologico anatomical changes in the nerves caused by the injections

N V NASAROFF Centralbl f Chir 1925 lin 2777 I further contribution to the problem of conjugal syphiles of the nervous system I Gordon Am J Syphilis 1926 t 201

The treatment of syphilis of the central nervous system

J lantett Am J Syphylis 1926 x 236 Von Recklinghausen's di ease in three generations W

1 tore Proc Roy Soc Vied 1926 zer Sect Neurol 11 The results of surgery of the phrenic and sympathetic nerves Colmers Deutsche med Wchnschr 1925 h

2143 A new operative treatment of spastic paralysis of the lower extremities Y LIMURY Tokyo med Wchnschr 1925 b 5448

# SURGERY OF THE CHEST

# Chest Wall and Breast

Accessory milk glands and warts with particular refer ence to milk gland formations in the avilla C JOHN Arch f Gynael 1925 CTX11 691

A supernumerary breast near the labrum J W BELL 1m J Obst & Gynec 1926 vi 507

I at necross of the breast with an account of a case (a Habrield Brit J Surg 19 6 viii ,42 Typhoid absces of the breast with the report of a case simulating a turn ir P O SNORL and J I Goronzit Am J M Sc 1926 clxx1 555

Breast tumors and their diagnosis and treatment H W HENITT J Michigan State M Soc 1926 vo.

Benign tumors of the male breast F Helvestine JR Vir.inia M Month 1926 lin 35

Harmanasoma of the breast B LUBARSAY Zentralbl f Chir 1926 lin 77 The report of an unu ual case of fibro adenoma of the

breast M W BULMAN Med J & Rec 1926 CXXIII 408 I are and early carcinoma of the breast Six G L

CHENTLE I ractitioner 1926 ctv1 281

Pain in cancer of the breast its clinical significance with special reference to bone metastases S GINBURG ۱m [101] J M Sc 1926 clxx1 320

Recurrent carcinoma of the male breast B L COLLY Am J Surg 1926 xl 90 Experiences in the irradiation of breast cancer H

WINTZ Brit J Radiol 1926 XXXI 150

X rays and radium in the management of breast carci noma G E RICHARDS Canadian M Ass I 10 6 vvi [101] 358 Trachea, Lungs, and Pleura

Foreign bodies in the tracheobronchial tree report of cases in which bronchoscopy was not done L H CLERF Laryngoscope 1926 xxxv1 206 Report of a case of emphysema of the neck and chest

(pre operative) following the inhalation of a piece of a nut H H FORBES Laryngoscope 1926 txxv1 192 A foreign body introduced transpleurally and removed

via the bronchus three years later C I IMPERATORI

Laryngoscope 1926 ₹XXVI ∞ The bronchoscope as an invaluable aid for the per formance of tracheotomy in a certain class of cases F O Lewis Laryngoscope 1926 xxxv1 04 \nn Otol

Rhinol & Laryngol 1926 txx 211 Surgical diathermy for tumors of the trachea H II Bowling and P P Vinson Laryngoscope 1926 xxxvi

Roentgenological exploration of the bronchial tubes with iodized oil (lipiodol) J Forestier [101] 19\_6 11 303

Investigations of bronchial affections by means of iodine preparations jodumbrin and lipiodol P F Moller and R Von Magnus Acta med Scand 1925 hun 174 [102]

The use of iodized oil in the diagnosis and treatment of bronchial affections S PRITCHARD B WHYTE and J K M GORDON J Am M Ass 1926 IXXXI 1119

Non-opaque foreign bodies in the air passages \ ray diagnosis and localization W F MANGES Brit I

Radiol 1026 xxx 110

The history of bronchoscopy and œsophagoscopy for foreign body E J PATTERSON Laryngoscope 1026 XXXVI 157

The upper lobe bronchoscope M C MYERSON Laryngoscope 1926 xxxv1 1,9

The experimental basis of transpleural bronchostomy S MINKIN Deutsche Ztschr f Chir 1925 Cxcm 286 Presentation of instruments for endoscopy C Jackson Laryngoscepe 1026 xxxv1 176

The removal of a watermelon seed from the right bronchus of a child C E Hays Atlantic M J 19 6

A foreign body removed from the bronchus after being

in situ over three years C J IMPERATORI Laryngoscope 1026 XXXVI 202 The difference in the pathological and anatomical pic ture of primary tonsillar and primary lung infection in

the tuberculosis of childhood C Rur Beitr z Klin d Tuberk 1925 Isn 286 Bronchopulmonary spirochætosis H FREED

State J M 1926 XX1 706

Primary pulmonary aspergillosis M Maca Nicaud Presse med Par 1926 33314 401 M MACAGNE and Pulmonary embolism S Γ HERMANN Minnesota Med

1926 17 180

The surgery of pulmonary suppuration W. I. Hume Kentucky M. J. 1926 xxiv. 1,8

Three cases of bronchiectasis L S T BURRELL Proc Roy Soc Med Lond 1926 xix Clin Sect 30

I ostoperative mas is collap e of the lung J C SHELLITO J Iowa State M Soc 1926 vvi 186 Some observations on artificial pneumothorax. R G Brewer J Kansas M Soc 1026 TXVI 103 Acute dilatation of the stomach complicating artificial

pneumothorax L R SHORE Lancet 1926 ccx 738 Artificial pneumothorax in the treatment of pulmonary tnberculosis and its effects on the larynx J P DWORETZKY Ann Otol Rhinol & Laryngol 1926 XXX 42 Small partial costal resection in chronic localized tuber

culosis of the lungs JACQUEROD Presse med Par 10 6 txrs 371

Intrapleural pneumolysis L Eloesser Surg Clin V Am 1026 vi 381 Traumatic pneumothoray H H SEARLS Surg Clin

NAmigévisi Acute hydatid pneumothorax of pulmonary origin O

Cignozzi Arch ital di chir 19 6 xv 57 Can pleural effusions following thoracotomies be prevented by artificial pneumothorax? E CARLSON and S

BUNNELL Arch Surg 1926 vii 919 Calcification of the pleura after inflammatory processes

P Esat Zentralbi f Chir 1925 ln 8,8 Empyema ia children G B Packard Jr Colorado Med 19 6 con 88

Empyema of unusual origin J R Gerstley Clin N Am 1926 ix 1413 The treatment of chronic empyema A. S BRINKLEY

Virginia M Month 1926 his The re expansion of the lung in empyema and the

mechanical effects of carbon-dioxide inhalation E D CHURCHILL Boston M & S J 19 6 excit 623

# Heart and Pericardium

The urgery of diseases of the heart and blood vessels F BR ENING Min Wehnschr 19 3 11 -281 Concerning cardiolysis A GUILLEMIN and P LAUNAY Bull et mem Soc nat de chir 1926 lii 331

### Œsophagus and Mediastinum

The peristalsis of the human ocsophagus which is in dependent of swallowing G GANTER Ztochr f Biol 1925 IXXXII 309

Maldevelopment of the oesophagus R THERON Brit Nf J 1926 i 652

The presentation of the \ ray picture of an interesting resophageal distortion H H FORBES Laryngoscope 1926 1777 1 190 Esophageal diverticulum R L PAYNE South M &

1926 Perun 16

The significance of early diagnosis of diverticulum of the cesophagus case report A L LEVIN New Orleans M & S J 1926 Ixxun 696 Multiple succulations of the esophagus | BUCKSTEIN

Am M Ass 19 6 lxxxv1 1128

The roentgen diagno is of diseases of the resophagus M FALLHABER and L KATZ Samml zwangl Abhandl a

d Geb d Verdauungs u Stoffwechs Krankh 1923 1 1 Traumatic perforation of the esophagus H B Orrov Laryngoscope 19 6 txxvi 183

#### Miscellaneous

Experimental studies of mechanical disturbances of res piration and some resulting conditions R \lssf\ and P COLLALIS Deutsche Ztschr f Chir 1925 cxcit 30

Obscure chest conditions with positive bronchoscopic findings two cases of syphils of the trachea and bronchi M C Myfrson Laryngoscope 19 6 xxvv 193

# SURGERY OF THE ABDOMEN

#### Abdominal Wall and Perltoneum

Actinomy costs of the abdominal wall B L Coxey Am I Surg roz6 vl 80

Ascitic tuberculous peritonitis with large masses B Myers Proc Roy Soc Med Lond 1926 xiv Clin Sect 27

The treatment and prognosis of intraperitoneal adhe sions D H BESSESEN Med J & Rec 1926 CYRII 443 The origin of pseudomycoma of the peritoneum and allied pathological processes J Koerce Zentralhl f

Gynaek 1026 1 83 Omental tersion simulating acute cholecystitis SCHWARZ Zentralbl f Chir 1926 lui 5

Abnormal fat changes fatty denosits in the great omentum and its results G Brossok Zentralbl f Chir

ro 6 hu 86 A large tumor of the surmoid mesocolon simulating an ectopic pregnancy P GUENIOT and G BLUM Bull boc

d obst et de gynéc de Par 1916 xv 170 A large congenital sliding hernia of the cord A WEEKS and L Brooks Surg Clin N Am 1026 vs 377

Perstonitis of the hernial sac B Conv Zentrafbl f Chir 1925 lii 2526

Right justavesical incarcerated herma Zentralbl f Chir 1926 lin 83 LUDRNÁC

Strangulated hernia from the standpoint of the viability of the intestinal contents report of ,8 cases A J BELLER and R COLP Arch Surg 1920 XII 901
The surgers of inguinal hernia W I WESTMORELAND

Med Ass Georgia 1926 iv 132

Radical operation for large inguinal hernix by means of plastic operation on the hernial sac A Lieschied Deutsche Ztschr f Chir 1925 exc 30, Plastic closure of large abdominal hernix O Ogin

Zentralbl f Chir 1925 lii 1356 Muscle and fascia suture with relation to herma repair A R LOONTZ Surg Gynec & Obst 1926 xin 222

Experimental results in the use of dead fascia grafts for hernia repair A R Koontz Ann Surg 1026 lxxun 523

#### Gastro Intestinal Tract

Gastric secretion on vegetable food W N BOLDSREFF Bull Battle Creek Samt & Hosp Clin Battle Creek Michigan 1926 xxi 104

Operation for gastroptosis O Orin Zentralbl f Chir ro26 hii 84

Cardiospasm or achalasia of the eesophagus F H DIGGLE Practitioner 1026 CXVI 304

Pyloric stenosis in infancy C A W ZIMMERMAN J Missouri State M Ass 1926 xxiii 131

Acute duodenopyloric obstruction with severe gastric dilatation Jean Bull et mem Soc nat de chir 1920 l11 302

The progress of treatment for hypertrophic stenosi of the pylorus B CHAFFEE California & West Med 1926

A clim al study of 221 operated cases of hypertrophic congenital pyloric stenosis I A ABT and A A STRAUSS Med Clin N Am 1926 it 1305

Achlorhydria—a clinical study of 100 cases Dew Haugick and J E Wood Virginia M Month 1926 hu 48

Acute phlegmonous Lastritis D R Owen Lancet 19 6 ccx 863

Additional roentgen ray signs of chronic gastritis A Bassler Am J Roentgenol 1926 tv 323
Gastric syphilis Comas Pérez Arch de med cirug y

especial 1926 vii 536 Description of a gastroscope R Korbscii Muenchen

med Wehnschr 1026 l'xxiii 20 Critical contribution on gastroscopy A V KNACK Zentralbl f innere Med 1925 tlvi 913

The study of the pepsin and antipepsin content in patients with and without ulcer H L POPPER. Wien

klin Wehnschr 19 5 xxxviii 1259 Studies on the pathogenesis of gastric ulcer R. BALIYE

Wien klin Wchnschr 1026 xxxiv 7 The development and results of ulcer of the stomach and

duodenum. G B GRUBER Wien klin Wehnschr 1923 FXXVIII 1253 1288 The significance of gastritis and duodenitis in the pathogenesis of gastric and duo lenal ulcer Konjetzny and

IUML. Zentralbi f alig Path u path Anat 1923 ZZZVI 165 Gastric and duodenal ulter theoretical and clinical

studies A Wankelstein Arch Int Med 1926 xxxvu An adenomatous growth of the type of Brunner's glands

in the walls of chronic calloused ulcers in the walls of the stomach and duodenum N LIANSEY Arch f path Anat 1025 ccfvnt 731 Chronic pyloric or duodenal ulcer postenor gastrojeju

nostomy with jejunojejunostomy G G Gazov But M J 2026 1 738

A discussion of the topical diagnosis of gastric and duodenal ulcer A. PRENKEL Zentralbl f Chir 1926 The retrability of the gastric niche in the diagno is of

ulcer HAUDER Fortschr a d Geb d Roentgenstrahlen [101] 1923 TYXIII 56 65T Visualization of the cardia the seat of a penetrating gastric ulcer R LEWISONY Ann Surg 1926 Ixenia

Acute gastric ulcer associated with pernicious anamia A M POLLOCK Brit M J 1926 1 615

The tendency to perforation of gastric ulcer P Riess Zentrafhl f Chir 1925 lii 28r8

Acute perforation of gastric and duodenal ulcer a study of sixty two consecutive cases L. A. MEYER and W. A. BRAMS Am I M Sc 1026 clvu sro Experimental studies on the chronicity of gastri ulcer

E Lincu Zentralbi I alig Path u path anat 1925 KYXVE I/O The present status of the treatment of ulcer of the

stomach and duodenum. A M Willis Virginia M Month 1926 hu r

Simple ulcer of the small intestine I A BIGGER. Virginia M Month 1926 lin 4

The treatment of gastric ulcer considerations and results P Morawitz Muenchen med W hischi 1925

IXXII 1995
Medical treatment of peptic ulcer G P HAMNER linginia M Month 19 6 lin 40

The use of novoprotein in ulcer of the stomach and duodenum Von Hertlein Mitt a d Grenz, eb d

Med n Chir 1925 txxviii 567
The treatment of bæmorrhages R Sexier Deutsche med Wchnischr 1925 h ross

The nerves of the stomach and their relation to surgery

E DAMCCREA Brit J Surg 19 6 vin, 621
The surgery of gastric diseases E Von Redwitz Wuerzb Abhandl a d Gesamtgeb d Mcd, 1925 III I Rational surgical treatment of gastric and duodenal ulcer M BUFALINI Arch ital di chir, 19 5 viv 641

Modification of present methods of gastroduodenostomy

W HUGHSON J Am M Ass 1926, lxxxvi 1°75
Treatment of perforated gastric ulcer and jejunostomy
ENDERLEN Deutsche med Wichnschr 19 6 lu 13

The form and function of the stomach after Finney's pyloroplasty H ALAPA Fortschr a d Geb d Roent

genstrahlen, 19 5, xxiii 785 Temporary occlusion of the gastro intestinal lumen in operations on the stomach and upper intestine

MADLENER Zentralbl f Chir, 1926, lin, 194 Acute postoperative dilatation of the stomach A J PARKER Med J & Rec 1926 Cvvm 45

The roentgen ray diagnosis of pedunculated growths and

gastric mucosa prolapsing through the pylorus review of the literature E L LLIASON E P PENDERGRASS and V W M WRIGHT Am J Rocatgenol, 1926 tv 295

Cancer of stomach J W SHUMAN J Am M Ass 19 6 lxxxvi, 1127
The management of advanced cancer of the stomach

N W GREEN Ann Surg , 1926 lexxiii 449

Gastrojejunostom, and gastric carcinoma H C REY NOLDS and S W JOHNSEN Med J & Rec 1926 CXXIII,

The effects of gastric resection by Billroth II method on the function and structure of the pancreas and upon alimentary absorption A CIMINATA Arch ital di chir 1926 XV 21

The indications and technique of gastrectomy Sole Arch argent de enferm d apar digest, 1925 1

The after treatment of gastric and intestinal operations Samml zwangl Abhandl a d Geb d Verdauungs u Stoffwechs Krankh, 1925 17, 1

Gastro-intestinal infection its roentgen manifestations EASTMOND Brit J Radiol, 1926 XXXI 93 The treatment of gastro intestinal hamorrhage with hot enemata k Sick Fortschr d Therap 1925 1 605

A revolver bullet wound of the abdomen with four pene trating wounds of the small intestine and one of the stomach operation recovery E Estor Bull et mem Soc nat de chir 1926 ln 244

Primary intestinal phlegmon E Metge Zentralhl f

Chir 1925 hi 2474

Intestinal lymphogranulomatosis R Pampers, and C TERPLAN Med Klin , 1925, xxi, 1679

A case of intestinal hæmorrhage of pneumococcal infec tion J CHATARD Med J & Rec 1926 CXXIII, 453 The diagnosis of subcutaneous intestinal prolapse H SCHNITZLER Wien klin Wchuschr , 1925 XXXVIII 1336

Intra abdominal hermie with the report of a case L W ELSTON J Indiana State M Ass, 1926 xiv 157
The effect of intestinal invagination in childhood

Birkenfeld Arch f klin Chir 1925 cxxxvii 356 Intussusception presenting unusual features FAIRWEATHER Lancet, 1926 CCX 863

Intestinal invagination in nursing children M STEIN SLEGER Semana méd 1926 xxxiii 435

The pathology and symptoms of retrograde incarcera tion E Polya Zentralbi f Chir, 19 5 lu 2518
Plasma chlorides in acute intestinal intovication of

children G L Boyn Am J Dis Child 1926 xxx, 514 Chloride treatment of intestinal obstruction T G ORR and R L HADEN South M J, 1926 x1x, 300

Peculiar necrosis of intestinal wall due to ascarides K. TAKEUCHI Arch f path Anat 19 5 cclviu 502

Cystic lymphangioma of the small intestine as the cause of ileus in a child R REINECKE Deutsche Ztschr f

Chir 1925 exciv 133 Sarcoma of the small intestine in a boy of 3 years asso ciated with intussusception of the ileum A Fullerton

Brit J Surg 19 6 xiii 754

Tustform dilatation of the duodenum simulating hour glass stomach J Mortey Brit J Surg 1926 xiii 759 Duodenal obstruction due to a cholecystoduodenocholic band G O Solem Med Clin N Am 1926 iv 14 3

Supramesocolic duodenal stenosis due to adhesive peri duodentis of ulcer origin I R GOYENA and M M Gallino Arch argent de enferm d apar digest 1925

[106] A duodenal ulcer from partial obstruction at the duode nojejunal junction E P SLOAN Am J Obst & Gynec

The symptoms of deep duodenal ulcer H Lossev and E Schneider Arch f alm Chir 1925 CYVVII 446

A case of perforated duodenal ulcer, histological and bacteriological examination BARBARO Bull et mém

Soc anat de Par 1925 xcv, 68 [106] Hypersensitiveness to milk complicating the treatment of duodenal ulcer J G CARR Med Clin N Am 1026

17 1400

Duodenal fistula in the roentgen picture H HAVLICER Fortschr a d Geh d Roentgenstrahlen 1925 vxxiii 944 An intramesenteric fibromyoma of the jejunum WASSERTRUEDINGER Arch f Llin Chir, 1925 CXXXVII,

4,6 Peptic ulcer of the jejunum after gastric resection E BIRGFELD Arch f Llin Chir, 1925, CXXXVII 568

The surgery of the jejunum J ADAMS Brit M J. 19 6 1 046 Peptic ulcer of Meckel's diverticulum E STULZ and P

WORINGER Ann Surg 1926 lexxiii 470 [106]
Peptic ulcer of Meckel's diverticulum G PASCALE Ann ital dichir 19 5 1v 965 [107]
A traumatic facal fistula established five weeks after

mjury M K Swith Am J Surg , 1926 xl 90

Remarkable adhesions of the large intestine D REM Med I & Rec 1926 CTT111 441 Megacolon in a child FROELICH Bull Soc dobst et

de gynic de Par 19 6 xv 194 Subacute intestinal obstruction with unusual dilatation of the colon shown roentgenologically E W LIPSCHUTZ

Am I Roentgenot 1026 xv 326 Enteroliths O WINTERSTEIN Deutsche Ztschr f

Chir 1925 CTCIII 409 The finding of small bairs in enteroliths R NEUMANN

Arch f path Anat 1925 cclviii 783 Irritable colon M L GRAYES and G GRAYES South

M J, 19 6 x1x 260 Severe ulcerative colitis G Seefisch Deutsche med

Wchnschr 1925 li 1943 Ruptured diverticulitis with general peritoritis

WEEKS and L BROOKS Surg Chn N Am 19 6 vi 375 Acquired suppurative diverticulitis with pylephlebitis and metastatic suppuration in the liver report of a case S E Kramer and W Robisson Surg Gynec & Obst

19 6 zlu 540 The operative formation of an artificial anus capable of closure M kAPPIS Fortschr d Therap, 1925 1 425 A new colostomy helt J W NEELY J Am M Ass,

19 6 lvxxv1 1210 Removal of an artificial anus of necessity by the so called evagination method E Sonntag Zentralbl f

Chir 1926, lm 130

Insufficiency of the ileo acal valve. M. R. CASTEN N. ROMANO and J J BEREFERVIDE. Arch argent deenferm d apar digest 1925 1 124

Tuberculosis of the excum J W I arrange and 1 O FISHER Ann Surg 1926 IXXXIII 496 [107] A case of gangrene of the execum in a newborn infant

L A Wing Am J Obst & Cynec 1926 XI 510
An appendix pinned to the liver W II GALBRAITH

Brit J S rg 1926 vm 749

Some remarks on the etiology of appendicitis-Appendicitis in infancy and childhood 5 J SEEGER

Surg Gynec & Ohst 1926 the 536 Appendicitis in children under 5 years of age

CHRISTOPHER Am J Dist Child 1926 Yrvi 525 Acute appendicates to C E SIMPSON But M J 1026 1 637

The diagnosis of appendicitis G LEENDERTZ Monats schr f Geburtsb u Gynaek 1925 Ivo 313

The diagnosis of acute appendicutes L. L. Brozzow Internat I Med & Surg 19 6 xxxix 149

The significance of leucocytosis in appendiciti from a diagnostic and prognostic standpoint A FONO Schweiz med Wehnschr 1925 lv 7

The differential diagnosis of appendicities E Koevic Monate chr f Geburtsh u Gynaek 1925 Ivvi 304 The direct and differential diagnosis of appendicitis in women K FINE Monatsschr f Gebuitsh u Gynaek

2925 PEXT 328 Acute appendicities a study based on the material of the Municipal Military Hospital of Moscow \ Ocaty Municipal Miniary Hospital Verhandl d it russ Chirurgenkongr Moscow 1924

The treatment of scute appendicutis Hotz Schweiz med Wchnschr 1916 ha 8 An inquiry into the nature of chronic appendicitis 1

E HERTELER Am J Obst & Gynec 1926 to 155 (108) Appendicitis in pregnancy G D Korston and A O

FISHER \m J Obst & Cyres 1926 XI 184 (108) Chronic appendiciti according to the statistics of the Municipal Vilitary Hospital of Moscow W NEUMAN

Verhandl d 16 russ Chirurgenkonge Moscow 1924 Pylephlebitis and liver abscess following appendicitis

E I ELIASON Surg Cynec & Ob t 1926 vlit 510 An endometrial adenoma (implantation) in the termi form appendix VI G SEELIC Am J Obst & Gynee

1026 XI 401 Diverticulities of the sigmoid or pelvic colon with a sig moidovesical fistula J W KEEFE Boston M & S J

1926 CYCIN 5// Surgical complications of diverticulosis of the agmost G H I List Beitr z klin Chir 1925 cxxxx 338

An experimental study of the physiopathology of ileosigmoidostomy O CANTELNO Ann ital di chir 1925 1 1091 Incarceration of a diverticulum of the sigmoid flexure H FINSTERER Med Klin 1925 vvi 1841

Bull et mém Foreign bodies in the rectum HALLER Soc d chirurgiens de Par 1926 xviii i Kectal pathology caused by syphilis J P MONTAGUE

Am J Syphili 1926 x 254 Keferred pains of sectal origin J F MONTAGUE

Med 50c N Jersey 1926 TxIII 171 Suggestions regarding radium treatment of rectosigmoid carcinoma I T Case Bull Battle Creek Sanit & Ho p Clin Battle Creek Vichigan 1926 vvi 123

Radio active substances and their therapeutic u s and applications radium treatment of sectal carcinoma. Part Muir Radiology 1926 11 310

The surgical treatment of cancer of the rectum Med Kin 192 vri 1757

The technique of abdominosacral extirpation of the rectum & H Batter Beits z klin Chir 1925 cxxxv

The field of application of the primary and secondary drawing through procedure following re-ertion of rectal cancer by the sacral route also a demonstration of the possibility of artificial prolapse and its application MANOL Arch f klin Chir 1025 CXXXVI 4/9 [110] Imperforate anus corrected by operation associated

megasiemoid A Ioniteurez Bull Soc dobst et de gynée de Par 1925 viv 637

Popular fallacus concerning hæmorihoids [111]

MONTAGUE Med. J & Kec. 1920 CXXIII 445 More fallacies concerning hamorrhoids J F MON

TACLE Med J & Pec 19 6 crsiii 457 The treatment of hamorrhoids by injection F II TERRELL Virginia M Month 1926 lin 13

Pruntus ant treatment by alcohol injection II B STONF Surg Gynec & Obst 1026 xhi shs Venezeal disease of the anus and rectum C J DRUECK Illenois M J 19 6 thr 330

Impalement wounds of the anus and rectum O W MADELLING Arch f klin Chir 1925 extruit r [111]

# Liver Gali Bladder Pancreas and Spicen

Recovery from runture of the liver following thiury by bob sledding 5 R SCHULTZ Med Times 1926 liv 90
The cholesterin content of the blood of fasting rabbits KIYOSHI MORIZAWA Acta scholæ med univ imp Kioto

The cholestern content of the blood of fasting rabbits med univ imp Kioto 1925 vii 357 Studies on the mode of bile outflow IV \ new protest

against the opinion of Finhoin about the source of B bile in view of the experiments by Dunn and Connell Koricki NAMASHIMA Acia scholæ med univ imp kioto 1925 111 455

The liver considered from the standpoint of the inves tigator the physician and the surgeon G W CRILE ann Clin Med 1926 IV 806

The present status of functional tests of the liver W FETTER Atlantic M | 1926 trix 289 X ray diagnosis of diseases of the liver and gall bladder G W GRIER Atlantic M J 1920 Eur 203 The significance of bile pigment W W G Macn

LACREAN Atlantic M J 1926 XXIX 29, 11111 The disease of the liver including hepatosplenic affect tions H Erpriger and P Walzel, 1026 Leipzig Thieme

The clinical application of re ent studies on jaundice A W SVELL Surg Gynec & Obst 1926 xlii

Structure of the right hepatic duct A WEEKS and L BROOKS Surg Chn \ Am 1026 VI 371 Chrome interstitual hepatiti with the report of a case

G I MUNS Am J Dis Child 1926 vert 469

Omentopers in circulus of the liver report of a cae I W LESTER J Am M As 1926 Textvi 1123 Primary pyopneumocyst of the liver M C Rodriguez Semana med 1925 xxxii 824 [112] [112]

A case of calcification in hepatic echinococcus disease asso rated with gall stone disease L I MARIANTSCHIK

Zentralbl 1 Chur 1026 his o

Hydatid cyst of the liver involving both lobes C G

HEVD Ann Surg , 1926 Ivxxiii 540

The description of an instrument for locating and drain ing hepatic ab cess P K Gilmax Surg Clin N Am, rq 6 ii 413

A case of primary carcinoma of the liver Γ Schisler and J C Morrit J Missouri State M Ass., 1926 vvm

Cholecystography \ KNAPP Med J & Rec 1926

CXIII 437
Gall bladder diagnosis from the standpoint of the surgeon E A GRAHAM Radiology ro 6 vi 2/3

The evolution of early to late gall tract disease brief consideration of its diagnosis and treatment B B

A chucal study of cholecystitis with the aid of chole cystography O C Ziva Radiology, 19 6 vi 286

The practical value of the Graham Cole method in the diagnosis of gall bladder disease as compared with the older method A W GEORGE Radiology 1926 v1 92 The roentgenological demonstration of the gall bladder

W BARTZNER Med Klin 1926 von 18

Roentgenography of the gall bladder and small Lidney stones after the intravenous injection of tetrabromuro phenolphthalein Helser Fortschr a d Geb d Roent genstrahlen 19 5 exxur 1 5
The roentgenological visualization of the pathologically

cha ged gall bladder L BISCHOFF Schweiz med Wchn

schr 1925 ls 731

The visualization of the gall bladder in the roentgen picture H STEGEMANN Muenchen med Wchnschr

1925 lxx11 1999

In what position should one make an \ rav examina tion of the bile passages M Con Med Klin, 1925 XXI 1802

A technique for the intravenous infusion of sodium tetra iodophenolphthalein in cholecystography

Liest Radiology 1926 vi 300
The gall bladder in general and the sodium tetra iodo phenolphthalein test in particular W I STATER North west Med 2026 xxv 153

The intravenous injection of magnesium sulphate and the gall bladder secretion T Nishina Nippon Naika

Cakkai Zashi 19 5 uni
Large gall bladder diverticula with stenosis of the
pylorus W Sebening and W Schoendube Arch f

Lin Chir 1925 CXXXII 308 The diagnosis of cholecystitis and cholelithiasis D J

Lawson Northwest Med 1926 xxx 178
Cholecystitis and diabetes L Ricen

Northwest Med roz6, xxv 19r

Complete cholecystostomy versus cholecystectomy in cases of empyema of the gall bladder E D MARTIN South M J ro26 tax ro8 11131 Chronic gall bladder disease—its medical aspects W J

MALLORY Virginia M Month 1926 lin 41
Chronic cholecystitis A D WOODMANSEE J Am

Inst Homosop 1926 viv 31, The prevention and new surgical treatment of gall stone

disease F Kutty 1925 Munich Gmelin The genesis of gall stones L Aschorr Wien med Wichischr 1026 Ixxvi 3

The pathogenesis of biliary calculi according to Roysing H MALLIÉ J de med de Bordeaux 19 6 cm 192

Gall tones in children J D CAREY J Am M Ass 19 6 lxxxvi 1 co The development of carcinoma in calculous cholecysti

S D Giordino Riforma med 1923 vli 11.7 [113] The bleeding gall bladder H Hetsser Muenchen med Wchnschr rg2, lxx11 ∞,

Hypernephroma of the gall bladder cholecystectomy W Tysov Brit J Surg 1926 viii 75/

Surgery of the gall bladder W J MAYO Illinois M J

19 6 Tlix 303 Factors in safety in gall bladder and duct surgery P

KOCKEN Northwest Med 1926 XXV 18/

Experience with non surgical drainage of the bile truct by the Lyon method A G Brown Jr Virginia M Month to 6 lm 2 Biliary carrhosis raport of a case with atresia of the

intrabepatic but without atresia of the extrahepatic bile ducts and with a study of its metabolism L G PARSONS and E M HICKMANS Am J Dis Child 10 6 xxx1 459

Giardiasis of the biliary tract M R Caster and J C CALAN Arch argent de enferm d apar digest 1925 1

Dilatation of the common bile duct in the absence of a functioning fall bladder R C Coffey Ann Surg 1926 PXXIII 479

Secondary operations on the common bile duct WALTERS Surg Gynec & Obst 1926 xlii 453

Hæmorrhage after biliary operations and in diseases of the bile passages K BUEDINGER Arch f klin Chir

rozs extxvii rog Hastic operation on the bile passages by means of a buried drain G H FEIST Beitr z klin Chir 1925

CTXXV 360 Contributions to the physiology of the pancreas

The cau es of external pancreatic ecretion and the mechanisms concerned A C Ivi Ann Clin Med, 19 6 11 98 A study of external pancreatic insufficiency as indicated

by the enzymes in the duodenal juice removed with a sound CHIRAY LEBON and GOZLAN Bull et mem Soc med d hop de Par 1025 vli 1646 [114 The influence of thyroid feeding on the islets of Langer [114]

bans in the guinca pig G R CAMERON J Path & Bac teriol 1926 XXIX 17/

Observations on the diagnosis of diseases of the pan

creas J H MUSSER Ven Orleans M & S J ro 6 lexviii 603

Acute hæmorrhagic pancreatitis with epigastic hemia D S FARREATHER Brit M J 19 6 1 653 Acute necrosis of the pancreas S RITTER VOY LINHARDT Frankfurt Ztschr f Path 19 5 venu 14

Cystic tumors of the head of the pancrets roentgeno logical diagnosis P ESCUDERO H M TERRADA and

M M GALLINO Arch argent de enfirm d apar digest 1925 1 34 A pseudo pancreatic cyst following cholecystitis H P

BROWN, JR Ann Surg 1926 Ivexiii 573 Absce s of the pancreas A S WEICH J Missouri

State M Ass 1926 TXIII 135 Postoperative reaction of the pancreas after operations on its neighboring viscera P WALZEL Arch f klin

Chir 1925 CXXXVII 512 Traumatic rupture of the spleen H Koster Med J

& Rec 1926 CTTH 455 Traumatic rupture of the spleen a review of nine cases

E BUTLER and E CARLSON Surg Clin N Am 1026 VI 517

Splenectomy for acute avail rotation of the malarial spleen N N Nasaroff Deutsche Ztschr f Chr.,

Hamolytic jaundice associated with splenomegaly E Galler and R M Jines Canadian M Ass J, 19 6 111 3/9 lour cases of splenectomy for splenomegaly of probably

parasitic on an with anaemia Costantial Raynaup and Vaura Bull et mém Soc nat de chir 1926 lu 353

Banti s disease H H WIGGERS I Am Inst Homogon

Splenectomy in Banti's disease READ N Zealand M J 1926 XX1 56

Splenic anamua of young children treated by plenec tomy H T ASHBY and A H SOUTHAM But M I 1026 1 411 [115] Splenectorny for purpura hæmorrhagiea R I HARRIS

Canadian M Ass J 1920 XVI 384 bplenectomy as a therapeutic measure in thrombocy topeme purpura hæmorrhagica A O Unipple Surg

Gynec & Obst 1926 xlii 329

The mortality and end results of spleneetomy
MAYO Am J M Sc 1926 class 313 [115]

1611 A contribution on the surgery and physiology of the spleen changes in the blood picture and hisal metabolism caused by splenectomy N LEGITA Ann stal di chie 11171 1925 IV 1144

#### Miscellaneous

Axial torsion a contribution on its etiology TENCHHOFF Zentralbl f Gynnek 1925 zlix 2823

The mechanism of axial rotation of the internal organs according to bellheim O Lindic Zentralbl I Grack 1925 thx 25 6

A persistently patent urachus W Van Hook Boston M &S J 1926 exciv 631

Large ele ed cysts of the urachus PATEL and LABRY Gyncc et obst 10 5 mi 449 [117]
Gunshot wounds of the abdomen in civil life K W [117]

STECKBAUER WISCONSIN M J 1926 TEV 179

Internal injuries without external signs case reports B F ECKLES Virginia M Month 1926 liu 38

The acute abdomen in childhood G HERZFELD But M J 1926 1 618 Lancet 1926 ccr 714 A case of lead encephalopathy mimicking an acute

abdominal condition C S WILLIAMSON Med Chn N Am 1926 1 1167 Some improvements in the management of intra ab-

dominal infections A O SINGLETON Texas State I M 1926 XXI 719

Ascandes in the right that foesa Anagnostopoulos and CHIPOLIAU Bull et mem Soc nat de chir 1926 Further contributions to the roentgenology of mixed

tumors of the abdomen H LAURELL Acta radiol 192) IV 480

An intra abdominal neoplasm treated by roentgen ther apy and cured for more than five years BECLERE and Strepey Bull Soc d'obst et de gynée de Par 1926 tv 166

Ascrtes N C PAINE Med J & Ree 1926 etxni got The technique of injection of the splanchnie nerve M Kariss Zentralbl i innere Med 1925 Thi 1997 Local versus general anasthesia for upper abdominal operations J F Mason Ann Surg 1926 Ixxiii 463 The value of peritoneal sheets of coalescence in abdom inal surgery A GUTTERREZ Surg Gynee & Obst 1926 vlu 468

Disphragmatic hernia a radiological study J W W Monison Gla gow W J 1926 n s xxiu 307
Right subdisphragmatic abscess J H Woolszy

Surg Clin N Am 1026 vi 563

## GYNECOLOGY

#### Diecus

Elongation of the utering cervix L Michon Bull Soc d obst et de gynéc de Lar 1916 vv 178

A clinical contribution on traumatic retroposition of the uterus W RAAFLAUB Zentralbi I Gynaek 1925 thr 2706

Inversion of the uterus A P MAXWELL Surg Chn Am 19 6 11 459

Utenne prolapse J C Wood J Am Inst Homocop 20 6 XIX 328 Fatal uterine prolapse S BOERM Zentralbl f Gynack

1925 Xlix 2715 Median fascia suspension of the di-placed uterus POLANO Arch f Cynnek 1925 cxxv 555 561

Some cases of retro uterine beamentopers Bull et mém Soc d'chirurgiens de Par 19 5 vvin 13 The obstetrical results of shortening of the round liga ment I VANVERTS Bull Soc d'obst et de gynée de

Par 1925 VIV 695 [118] Prolapse operations OPITZ Arch f Gynaek 1925 CXXV 545 561

The process of operative healing in severe cases of pro-lapse Kalledey Arch I Gynael 1025 CVIV 552 561 End results in the interposition operation for the cure of prolap us uten and cystocele F W Joneson Surg Gyner & Obst 1926 din 527 Prolapse operations and the ability to bear children

L Vogt Zischr f Geburtsh u Gynaek 1925 luxur tis [118] The Mayo vaginal hysterectomy an operation of choice

in selected cases of utenne prolap e J G Spackmay Hahneman Month, 1926 lu 200

Uterine eurettage its limitations E L KENDIG Vir ginia M Month 2026 lin 28 Ludoscopy of the uterus with a description of a hys teroscope H F Saymous J Obst & Gynze Brit Fmp

1926 VXXIII 52 Chancre of the cervix with a report of two cases CRON Am J Obst & Gynce 1025 x1 378

[118] Cervicitis erosion and laceration of the cervix uteri from the standpoint of pathology G L Mornell Am J Obst & Gynec 1926 xt 453 The re-eneration of the cervical epithelium H R

SCHAMOT Arch I Gynaek 1025 CXXV 504 534
The chief cau es of uterine hamorrhage and their treatment E Novak J Med Soe N Jersey, 19 6

XXIU 16 The treatment of lunctional uterine hamorrhage E NOVAE J Am. M Ass 1926 laxxv1 1105 Tumor lormation and tuberculosis in the malformed

uterus T Brandess Zischr f Geburtsh u Gynaek 1925 TUXIN 341 The question of uterine lipoma E PREISSECKER

Wien klin Wehnschr 10 6 vytix er Endometrioma uteri polyposum REIFFERSCHEID Arch f Gynaek 1925 CTXV 673

The etology and pithogenesis of uterine fibromyomata a new conception C A Castivo Bull 50c dobst et de gynéc de Par 1926 XV 174 Adenomyo is of the uterus and peritoneal adenofibrosis

R MEYER Zischr f Geburtsh u Gynaek 1925 ltxxiv

The incompatibility of pregnancy and fibroids of the uterus G C MOSHER Am J Obst & Cynec 19 6 21 11191

The treatment of fibroids of the uterus E A WEISS Am J Obst & Gynec, 1926 vi 343 Tatal streptococcamia following hysterectomy for uterine fibroids H B MATTHEWS Med Times 1926,

Precancerous lesions of the uterus P Property Am

J Obst & Gynec 19 6, va 450

A case of chorionepithelioma with adenomyoma A A GEMMELL J Obst & Gynac Brit Emp, rg 6 vexiii 83 Disturbances of the menstrual cycle and pathological hypertrophy of the mucous membrane in granulosa cell

carcinoma H O NEUMANN Zentralbl f Gynack, 1925 xl1x 2605 A case of continuous ingrowth of an adenocarcinoma of the ovary into an adenomyotic uterus H STEINER Arch

f Gynaek, 1925 CXXVII \*26

Cancer in the uterine corpus REEB Bull Soc dobst

et de gynéc de Par 1926, xv, 199

The incidence of carcinoma in the cervix following supra vaginal hysterectomy S S HOCHMAN Am J Obst & Gynec, 1026 x1 566

Broad ligament extension in carcinoms of the cervix C L MARTIN and F T ROGERS Am J Roentgenol

1046, xv, 336

The technique and results of the treatment of cervical carcinoma in "Radiumhemmet Stockholm H V J

HEYMANN Strahlentherapie 1925 XX, 34 The radium treatment of carcinoma uteri G G WARD and L K P FARRAR Am J Obst & Gynec 1920 vi

A new radium applicator for treatment of utenne car cinoma G E PFAHLER Am J Roentgenol , 1926, vv. 365 A uterme screen and introducer of radon tubes 1 E SEMPSOW and R E FLESHER J Am M Ass, 1926 IXXXVI

1005 Results of irradiation treatment of carcinoma of the cervix measured by the roentgen dosage figures in the so called critical zones W LAHM Strahlentherapie 1925

The treatment of squamous cell epithelioma of the cer VIX F W LYNCH Surg Clin N Am 1926 vi 333 The modern treatment of uterine carcinoma HUESSY Schweiz med Wchnschr 1925 lv 1120

The treatment of cancer of the uterine cervit ROUFFART Bruxelles méd 1026 vi 510

The Wertheim operation for malignant adenoma of the corpus uten C G Heyo Ann Surg , 1926 laxim 548 Surger, versus radium in the treatment of cancer of the terus J Y WELBORN Cincinnati J M 1920 vu 76

Fundal hysterectomy with partial conservation of the ovary F Papin and P Lecene Bull et mem Soc nat de chir 1926, lu. 208

### Adnexal and Perluterine Conditions

Spontaneous rotation of the adness B BEUTHNER Monatsschr f Geburtsh u Gynaek 1925 Ixu 222
Back and side puns in adneval inflammations L
kraut. Zentralbl f Gynaek, 1926 I 46
The vaccine treatment of adnexal inflammations G

GAMBAROW Monatsschr f Geburtsh u Gynaek 1925 ltx 290

A study of the interstitial portion of the normal fallopian tube C Daniel Gynéc et obst 1926 xiii x Intra abdominal torsion of the healthy tube ROCHER JEANNENEY and AUVRAY Bull et mem Soc nat de chir

rg26 lu 294 Tubal peristalsis and the influence exerted on the spon taneous movements of the tube by drugs F Kok Med Klin, 1925 xxi 1694

The present status of the question of methods of testing the permeability of the fallopian tubes D VON OTT Monatsschr f Geburtsh u Gynaek 1925 lost 58 Sterilization by crushing of the tube M MADLENER

Zentralbl f Gynaek, 1926 l, 219

Tuberculosis of the fallopian tubes Sir E MACLEAN J Obst & Gynac Brit Emp , 1926, vxviii 56

Concerning spontaneous and induced ovulation HOFSTARTTER Arch f Gynael 1925, CVVV1 350

The relations of ovarian function to the calcium content of the blood scrum A HAYN and L HAASE Arch f

Gynaek 1925 cxxvi 646

Some symptoms and conditions of activity of an ovarian hormone A LIPSCHUETZ Zentralbl f Gynaek, 1925 tht, 26 I Some symptoms and conditions of activity of an ovarian

hormone O O FELLNER Zentralll f Gynaek, 1925 the 2831

Female sexual hormones O O FELLNER Schweiz med Wchnschr, 1925, lv 98

The prognosis of functional weakness of the ovaries with particular reference to amenorrhoa K Hofstaetter

Arch f Grack 1025 cxxvi, 39

Interstitual gland cells in the human ovary B D

Lewin Am J M Sc, 1026 clxxi, 518

The corpus luteum as the source of the follicular hor mone C G JOHNSTON and V L GOULD Surg Cynec &

Obst 10 6 dn 572
Resection of the pelvic sympathetic treatment of sclerocystic ovaritis A HAMANT Bull Soc dobst et de gynéc de Par 1926 v 189

Clinical experiences with ovarian substitution therapy with a new hiologically tested preparation W HANNES

Deutsche med Wchnschr 1925 lii 1901 Remarks on ovarian transplantation

STAMM Zentralbl f Gynael 19 5 xliv 2836 The ovarian graft and its application to treatment in clinical cases V PETTINARI Gynéc et obst 1926, xui,

The question of the roentgen biology of the ovaries, especially from the generative and eugenic standpoint A Hirschi Arch f Frauenk u konstitutions forsch,

19 5 x1 377
The question of temporary roentgen sterilization and its indications Borell Arch f Gynael . 1925 cxxv.

Genital gland injury and the roentgen rays Nuern BERGER Arch f Gynaek 19 5 CTTV, 633

Harmful effects following radiation of the female genital glands H Martius and H Franken Zentralbl f Gynnel 1926 1, 25

Ovarian bæmorrhages F C BEALL Texas State I M 1926 TTI 724 Tubular adenoma of the ovary and its relation to true

hermaphroditism H O NEUMANN Arch f Gynaek 10 5 CTXVI 553

Lrukenberg tumors of the ovaries W Shaw Proc Roy Soc Med Lond 1926 xix, Sect Obst & Gynacc,

The modence and end results of carcinoma of the ovary at the Woman's Hospital C S Byron and H S Berkoff Am J Obst & Gynec 10 6 x1 550

#### External Genitalia

Repair of the perineum W H WILLIAMS J Indiana State M Ass 1926 VIV 145

The treatment of eczema after pruntus particularly runtus vulvæ J BENDER Dermat Wchnschr 1925, lxxx1 1734

Studies on the biology of the vagina F R GELLER Arch f Gynaek 1925 CTTV 408 444 The development of the vagina and the sinus tropenitalis

in the rat and the mole W A Majaberg Zischr f Anat u Entwicklungsgesch 1925 Pexali 650 Pelvic hernia report of a case of posterior vaginal hernia L M Miles Sure Gynec & Obst 1026 xlu 482

The glycogen content of the vacinal mucous membrane in colpitis and remarks on the treatment of the vaginal leucorrhoea Stephan Ar h f Gynaek 1025 CXXV 455

A contribution on se called colpitis vettularum FLATAU Arch f Gynaek 1025 CXV1 424 444 Methods of study of vaginal flora R Kessker Arch

I Gynaek 1925 401 444 I method of obtaining vaginal secretion for bacterio logical examination without the possibility of vulval con tamination J W HARRIS and J H BROWN Am J

Obst & Gynec 1026 vi 40 Nature and significance of the vaginal flora. HINRICHS Irch ( Gyrack 19 , CYYV 400 444 Results of 11 (gical vagina studies R Schroeper

Arch | Cynack 1925 CXY1 40 444 The value of the chemical reaction of the vaginal ecretion in the diagnasis of gonorrheea C L Renv

Muenchen med Wehn chr 1925 lvvu 2011 The pathogenicity of trichomon sanginalis I LASKAMP Arch f Ginsek 192 cxv 423 444 Imperforate himan A M Leming J Obst &

#### Miscellaneous

The material and method of a gynecological and obstetrical clinic W BLAIR BELL 1 Obst & Cynac But I mp 19 b verill 3

I sycho analy 1 in Kynecolegy K ABRULAN Ztschr Ceburt h u Gynack 1915 Ixeux 451

Gynecological symptoms ( Dippinio and W For

DIEF But M ] 19 ( 1 (55

Usnee Brit Emp 12 ( xxxii 46

Contribution to the whiest of cyclic changes in the female genitalia Bentevegae Anat An., 1923 lt 223 Studies of the chimacteric occurate of the function of various creams Wint? Arch ! Consek 1025 cvvl

Decidus of extra uterine; regnines or a dysmenorthosal membrane Bassassis Such I Connek 102, cere

The appendix and dysmenorthean G BURCHIARD Verhandl d phys med (esell h zu Wucr b 1925 1 20 Zt chr f Leburt h u Cynaek 1925 Isxxix 320

Sterility V BONNI Y Lancet 1926 CCX 865 The non-pecific anti-enic effect of spermatozoa upon

fridity 5 J IN E1505 Surg Cyner & Ofst 1926 The question of sperm immunity 1 Bonyag and

H KAMNIKER Deut che med Wehnschr 1025 h 2110 Bicornate bi ervical uterus double vagina hamatosal ony hamatometra hematocolpos on the left side. REEB Bull Son d'obst et de gynée de l'ar 19 5 xv 200 True hermaphroditism Reifferscheid

Cynack 1925 Ctti 670

The importance of the allergic constitution in gynecology ALBRECHT Arch I Genack 192 CXXV 503 596 The diagnosis and treatment of infections of the female pelvic organs II CHAITZ Illinos M J 1926 alir 314 Pelvic inflamm dory disease t W Hibbitt Internal Med & Sury 1926 XXXIX 139

The non surrical treatment of pelvic inflammatory disea e J A McGLIN Therap Gaz 1926 1 229

The mud both treatment of chronic inflammatory processes of the female genitalia W Burono Monat schr I Geburtsh u Gynaek 1925 Ivu 160

The genital secretion and the vegetative nervous

system Kaboth Arch f Gynaek 1925 CXV 419 441 Fire ps, chogenesis of leucosthora A Mayer Ar h f Gynack 19 5 exts 418 444

Studies on the relation of leucorthora and the con stitution in 100 healthy children and 300 healthy women and the resorption capacity of the vag na Loesen

Arch f Gynack 1925 exxv 422 444
Theoretical observations on the treatment of the leucorrhora Krastery Arch f Gynaek rozs exxv 427

Metricol a new substance for the vaginal tr atment of

leu orthoga and oth r diseases of the female genital a CLIZMIN Fortschr d Med 1925 vlm 206

The practical value of the degree of stenlity and the treatment of non specific leucorrhiea Zimmerman Irch f Gynael, 1015 cxx1 416 444

Methods of complement fixation in gonorrhes in the female GRIEFENBERG Arch f Gynaek 1925 cxxx 442 Principles of the management of gonorrhoza Holzbach

Arch f Gynzek 1925 cers 438 444 The treatment of gonorrhora in women R LUIN Fort chr d Med 19 5 vli 1 366 Chronic pelvic pain in nomen \ \LCOCK Brit M J

1926 1 609 The symptomatology and diagnosi of varicose vein of

the female pelvis L A Luge Sur, Clin \ Am 1926 1 elvic hæmitoceles without apparent alterations of the gemtal organs R KELLER Bull Soc dobst et de

gynéc de l'ar 1920 ty 204 The heterotopic growths of the structure of uterine mucous membrane A O Lozsren Arch f path Anat

to 6 celex of The question of endometrioid heterotopic epithelial growths and particularly the development of so-called extraperitoneal growths of this nature I BUNGARY

Arch f klin Chir 1925 exxxvii 719 idenoma of the navel a contribut on to our kno ledge of heterotopic glands with the structure of the uterine mucosa J Schiff MINN and W Seyrerr Arch f Gynael

1925 6441 308 The presence of uterine mucous membrane in the flexure of the group a contribution to the theory of the

development of heterotopic endometrioid growths Hollman Beitr z klin Chir 1925 czxxv 84 Indometraid beterotopia in the sigmoid colon in the

stage of climacteric involution F Gross Frankfurt Ztschr f Path 1025 txxiii 258

A case of ad nomiosis of the uterine corpus from the heterotopic epithelium of a peudomucinous cystoma adherent to the uterus I kirai Arch f Gynaek 1925 Critical remarks on Halban's hystero adenosis metas

tatica I MEYER Zentralbl I Gynack, 19 5 xlix

Retro uterine tar cysts unrelated to the ovary and re

marks on Samp on's theory O Voy Francue Mo not schr I C burtish u Gynack 1925 Ixx 263 Hypernephroid sarcoma in the true pelvis J Schire many and I States. Arch I Gynack 1925 exxvii 194

The treatment of cancer particularly can er develoring in the lemnic genitulia A Thillierine Deutsche

Zische f Chir 192, exciv of An instrument for lacilitating vaginal drainage during the course of laparotomy P WEBER Ball Soc dobst et de gynéc de l'ar 1926 xv 198

## OBSTETRICS

## Pregnancy and Its Complications

The length of pregnancy from a legal standpoint GLGGENBERGER Arch f Gynaek 1925 CTT 611, 616 A critical contribution on the duration of pregnancy W POTEN and W BOETTICHER Arch f Gynaek, 1925

The hood content of the nucleolus of the human ovum and its relation to the determination of sev E FELS

Zentralbl f Gynaek 1926 1 35

The function of the internal organs during pregnancy KRAEUTER Arch f Gynael. 1925 CXXV 646 664

The function of the liver and kidneys in pregnancy and eclampsia E Preissecker Zentralbl f Gynaek 1926

Investigations of the conditions of the sympathetic nervous system during pregnancy S Suesifica and S Liebuan Ztschr f d ges exper Med 1925 xlvin 154 Resistance tests of the skin of pregnant women H

HINSELMANN Klin Wchnschr 1925, in 2346

The hyphoscohotic heart and gestation H Heidler Zischr f Geburtsb u Gynaek 19 5 lyxxix 294 Cyclic changes of the acid titer in the vaginal secretion

of the pregnant woman H GAENSSLE Zentralbl f Gynaek 1925 xlix 2893

Biology and pathology of the female J HALBAN and SEITZ VI The diagnosis of pregnancy 10 5 Berlin

Urban and Schwarzenberg

Recognition by palpation of the ovarian menstrual cycle and a description of an early sign of pregnancy H Freund Arch i Gynael. 1925 cvv. 631 The serological reaction of Luettge and Merz in early

pregnancy H MUNTER and E GRAEFENBERG Med

Klin 1925 vu 1890

The physiology of the hypermetabolism in prognancy H RUNGE and R KESSLER Arch f Gynaek, 1925

Studies of the effect of jodothyreoglobulin on diuresis and metabolism in pregnancy A MAHYERT Arch f

Gynack 1925 CYVVI 125 [121]
Studies of the surface tension in the serum of women during pregnancy and labor LEDERER Arch f Gynael. 1025 CXXV 642 645

Comparative studies of the water formation in the blood plasma of mother and child H RUNGE Arch f Gynaek, 1025 CXXV 621 625

The sigmficance of chemicophysical changes in the blood and the blood sugar curve in the female organism in the pregnant and non pregnant state I Under physiological conditions II Hyperemesis gravidarum E FREY Arch f Gynaek 1925 cvxv1 383

Sugar determinations in the maternal and fetal blood under normal conditions K HELLMUTH Zentralbl

f Cynaek 1925 thr 2691 The results of blood sugar studies during the gestation process H Guccisberg Ergebn d Physiol 195

The bilirubin and indican content of the blood during pregnancy H EUFINGER Arch f Gynaek 1923 CXXV

The significance of the amino acid values and the glucose values of the blood in the estimation of a toxicosis of pregnancy TREY Arch f Gynaek 19 5 CXXX 650 56.

A case of acidosis in a pregnant woman Desoubry and JANY Bull Soc d'obst et de gynéc de Par 1926 xv 164

Disturbances of the carbon dioxide metabolism in pregnancy O Klein and E Rischawy Deutsche Arch f klin Med 1925 cvlviii 195

Studies of the development of the cedema of pregnancy G KABOTH Arch f Gynaek 1925 cxxvii 170

Œdematous elongation of the cervix during pregnancy RHENTER Bull Soc d'obst et de gynée de Par 1026. xv 180

Weight estimates during pregnancy and the puerperium W KERWIN Am J Obst & Gynec 1926 vi 473

Palpatory recognition of the fetal heart tones through the anterior wall of the mother B P FOMENKO Zentralbl f Gynael 1926 l 231 Intraperatoneal hamorrhage complicating abortion

W L DOWNING Am J Obst & Gynec 1926 vi 503

The treatment of incomplete abortion J HERZSTEIN and I Davis Am J Obst & Gynec 1926 vi 577 The virulence of streptococci and the treatment of

febnle abortion H KUESTNER Zentralbl f Gynaek 1026 1 120

The methods of treating febrile abortion K FINK

Deutsche med Wchnschr 1925 li 1862

Tetanus with an acute course observed secondary to abortion AUVRAY Bull Soc d'obst et de gynéc de Par 10 6 XV 163

Hysterectomy in a case of postabortive infection TRUHINSHOLZ and HAMANT Bull Soc d obst et de gynec

de Par 10 6 XV 18, Is danger of death an indication for interruption of pregnancy? Niedermer Er Deutsche med Wehnschr

1025 1 1/47 Abortion and the criminal law H KLESTNER Deut sche med Wchnschr 1925 li 1941

Anterior abdominal hysterotomy for the interruption of pregnancy and sterilization its indications P OGINZ Surg Gynec & Obst 1926 thi 523

Two cases of uterine perforation with a criminal basis G KATZ Tentralbl f Gynael, 1025 xlix 2833 A lesion in a pregnant uterus REEB Bull Soc d obst

the specificity of the placenta as an organ I uerron and vo. Meriz Arch f Gynael 1925 cxx, 62, 630 Calcium studies of the placenta at various ages I

WEHEFRITZ Arch f Gynaek 19 5 cxxvii 106 The etiology of accidental hamorrhage and placental infarction an experimental investigation F J Browne

Brit M J 1926 1 683 Premature separation of the normally inserted placenta P BRAULT and C ROCHARD Bull Soc d obst et de gynéc de Par 1026 VV 170

The clinical significance of ectopic decidua at the vaginal portio M Samuel Zentralbl f Gynaek 1925

xlix 2893

Incarcerated retroflexion of the pregnant uterus with a complicating lethal intoxication G H SCHNEIDER Monatsschr f Geburtsh u Gynaek 1025 lxx1 121

Spontaneous rupture during pregnancy of a uterus previously subjected to exsarean section G Dujot and R CLEMPNT Rev franç de gynéc et dobst 1925 xx

Kupture of the uterus during pregnancy J Ridder 11211

Pregnancy complicated by fibroids Forger Union Gynécologie 1925 XXIV 519

Two cases of uterine fibromy oma complicating pregnancy P FIRKET Bruxelles med 1926 vi 606

Sudden torsion of a dermoid cyst of the ovary involving the tube during pregnancy operation continuation of the pregnancy H DUBOLCHER Bull Soc dobst et de gynèc de Par 1925 xiv 670

Slow and progressive torsion of a mucoid cust of the evary in the fourth month of pregnancy ovariectoms cure continuation of the pregnancy II DUBOUCHER Bull Soc dobst et de gynéc de Par 1925 xay 671 [122

Triple pregnancy with placents prævia abortion and postpartum hamorrhage A E Brown and L Mck Doro Med J Australia 19 6 1 464

162

Radiography in a case of triplet pregnancy G F
ABLECROMBLE Proc Roy Soc Med 1026 x11 Sect Obst & Gynac x8 Chnical contribution on ovarian pregnancy P Straw weg Zischr f Geburtsh u Gynaek 1925 luxuu 380

Report of a ca e of true ovarian pregnancy J R MAN LEY Am J Obst & Gynec 1926 E 512

Heus in pregnancy and labor A ABRAHAMSEY Zen

tralbl f Gypsek 1925 the 4,6 The transference of endo-enous and exogenous due stuffs from the maternal blood rato the amniotic fluid in acute yellow atrophy of the liver 11 JURLICH Alin Wehnschr 1925 IV 233

Pulmonary tuberculosis complicated by pregnancy 1 L McLeron Proc Roy Soc Med Lond 1926 xix

Sect Obst & Gynnec 61

Latent syphilis in pregnancy P BERTIN Presse med Par 1026 XXXIV 2 8

Glycosurus and pregnancy H J JOHN Surg Gynec

& Obst 19 6 xlu 543 The route of infection in the pichtis of pregnancy L

LUCES Arch i Cynaek 1925 Cvivii 149

Pathological and chemical changes in hyperemesis of pregnancy A M DRENNAN and C S HICES J Obst & Connec Brit Emp 19 6 xxviii 61 [123]

A case of hyperemesis in the early months of pregnancy with death three weeks after termination of pregnancy G FitzGibbon J Ob t & Ganze But Emp 1926 xxxiii o Insh J M Sc 1920 p 1 5

Diet in the treatment of pre eclampsis V J HARDING and H B VAN WYCK J Obst & Gynac Bot Lop

Eclampsia etiology and treatment H F have Surg Ginec & Obst 1926 the 569

#### Labor and Its Complications

Anæsthesia and analgesia in obstetnes. W. E. Levy Anes & Anal 1926 v 81 Twilight sleep in obstetrics II Fuchs Monatsschr f

Geburtsh u Cyntek 1925 lon r Test of labor H E Schilling Cincinnati J M 1926

Symposium on the obstetrical forceps W E Steppi FORD R L NORRIS E A SCHUMANN and E B PIPER Am J Obst & Gynec 1926 x1 523

The value of the kielland forceps in obstetrics L 11231

Averett Therap Goz 19 6 i 153 [123]
Contracted pelves I Proctir South M & S 19 6 laxuu 219 Injuries of the infant during delivery P B BLAND 1m J Obst & Gynec 1926 vi 4,7

Mechanism of labor in brow presentations and its operative treatment F JESS Zentralbl f Gynaek 1925

The diagnosis of engagement in vertex presentations

M ROSENSORY Med J & Rec 1926 CYSH 421 Twin labor at term very large infants EPARTIER Bull Soc d'obst et de gynéc de Par 1926 xs 186

A case of obstructed labor due to conjoined twins G F GEBERD and E HOLLAND Proc Poy Soc Med Lond 1026 xix Sect Obst & Gynzec 46

Tumors as ob tructions to labor G Sigrant Deutsche

med Wehnschr 1925 h 738 A case of dystocia due to dermoid pelvic cysts caesarean

operation and removal of the cysts recovery MARMASE and LENORMANT Bull et mem Soc nat de chir 19 6 lu

An ovarian cyst expelled by rectum in the course of the forceps application VORON and MOREL Bull Soc d obst et de gynée de Par 1916 vv 184

Anomalies in the union of the head and neck of the child and their importance in labor T Kermauver Wien khn Wehnschr 1026 verie i

Spontaneous rupture of the uterus in labor following a Sturmdorf tracheloplasty N J EASTMAN Am J Obst

& Gynec 1026 x1 500

Cases of casarean section J A KYNOCH Edinburgh M J 1926 Taxin Edinburgh Obst Soc 52 A case of cosarean section in twin pregnancy G W

YULE Edinburgh M I 1026 xxxii Edinburgh Obst Soc 49

Is createan section ever justifiable when the child is dead? Al Miller. Ohio State M J 1926 xxii 317
The technique of transperitoneal casarean section J O Polak Surg Gynec & Obst 1926 vis 551 Low peritones cassrean section Brinder Bull

Soc d'obst et de gynée de Par 1926 xv 162

Casarean section in the presence of ordema of the vulva

J P Greenith Zentialbi f Gynaek 1925 alix 26 3 Suprasymphyseal transpentoneal casarean A Baty DEAU Presse med Par 1026 axov 305

Casarean section for labor complicated with prolapse

of the cord J A KYNOCH J Obst & Gynec Brit

Emp 1936 XXVIII 90 120 the Ismale Handbook of Bology and pathology of the Ismale Handbook of Sprecology and obstetines J Hubby and L Setts Iark LIV tol VI The physicochemistry of labor and the puerpenum H Schade The physiology of pregnancy E Reuser 1935 Pethu Urban & Schwarzenberg

asse of serious eclamp in during labor fourteen con vul ions and shight los of consciousness injection of 12 etgrn (1 8 gr ) of morphine (upper limit) in ten hours low forceps delivery after episiotomy for atresia of the vulva delivery of a living infant weighing 3150 gm cure of the mother and survival of the infant M Fearber Bull Sor [124] d obst et de gynée de Par 1925 viv 660

The residual oxygen amino acids and polypeptids in the third stage of labor II Schlosshany Arch f Gynack

1025 CXXV 624 The conduct of the third stage of labor NEL Arch f Gynack 1925 CXX 355 365 The conduct of the third stage of labor HEYNEMANN

Arch f Gynack 1925 CXXV 339 365 The management of habitual aton; and placental ad

berence L IRNENKEL Arch f Gynack 1025 CKN 347

The question of the danger of manual eparation of the placenta and placental rests M S Naturescer Zentralbl

The treatment of the late stage of labor by prophylactic filling of the placenta with ice cold sterile salt solution Frey Arch ! Cynaek 19 5 cxxv 348 365

Retraction and the process of blood coagulation in the third stage of labor J William Zentralbi f Gynaek 1925 Alix 2644

The importance of the constitution for the prognosis following hamorrhages during labor Schoenholz Arch f Gynael 1925 cxxv 344 365

A simple method of compressing the aorta and blood supply of the lower half of the body LETTZLER Arch f Gynaek 1925 cxxv, 325, 365

Arrest of uterine hamorrhage by clamping the para metrium with double bladed clamps M HENKEL

Arch f Gynaek 1925 CXXV 327 365

The importance of cervical injuries in bleeding following spontaneous labor HERMSTEY, Arch f Gynaek., 1925 cxxv 332, 365 Lacerations of the uterus and the vaginal vault H

FREUND Arch f Gynael, 1925, cxxv, 602 The treatment of recent cervical tears H BAUMM

Muenchen med Wchnschr 1925 lxti 1975 Suture of recent permeovaginal tears R GRADENWITZ Fortschr d Therap, 1925 1 328

## Puerpersum and Its Complications

A case of puerperal inversion of the uterus replaced by a new form of the Aveling repositor W W King J Obst

& Gynze Brit Emp 1926 xxxiii 76
Remarks on morbidity in the puerperium Arks

Arch f Gynaek, 1925 CXXV 389 397 A review of puerperal deaths in the last twenty six

cars H Wuesthoff Monatsschr i Geburtsh u Gynaek, 1025 lxx 180 [124]

The treatment of puerperal mastitis O SHZER and W MEYER Muenchen med Wehnschr 1925 Ixxu 1688

The treatment of puerperal complications W Koer

TING Arch f Gynaek, 1925 CERV 336 36, The treatment of puerperal infection J H FOBES and W A FRASER Hahneman Month 1926, lu 140 [124] Puerperal fever II Streptococeus hamolyticus toxin and antitoxin A F LASH and B KAPLAN J Am M

Ass 10 6, lxxxv1, 1107 The metrorrhagic form of puerperal infection

COUVELAIRE Bull Soc d obst et de gynée de Par , 1926 XV 161 Fatal streptococcic septieæmia having begun the seventh

day after labor V LE LORIER Bull Soe dobst et de gynée de Par, 1926 xv 168

Eclamptie crisis appearing without premonitory symptoms after labor Vorov and Pigeaud Bull Soc d obst et de gynée de Par, 1926, xv 186

Intrapentoneal hamorrhage and intestinal obstruction

in the puerperium R W JOHNSTOVE J Obst & Gynac Brit Emp 1926 xxxiii, 81

#### Newborn

The measurement and weighing of net born children for statistical and legal purposes RISSMANN Arch f Gynaek., 19 5 CXXV 613

Temporary resuscitation of the heart in a newborn child by the injection of adrenalin LE LORIER Bull Soc d obst et de gynéc de Par 1926 v 160

The effect of insulin on the physiological loss of weight of the newborn child and on the hydrogen metabolism during early life E Voor Zentralbl f Gynaek 1925 Xlix 265

Necrosis of the scalp of a newborn child due to constric tion by the cicatrized uterine cervix H Heidler Wien klin Wchnschr 1925 XXXVIII 1184

A study of an epidemic of impetigo in newborn infants L B Dickey Arch Pediat 19 6 xlin 145

Pemphigus neonatorum contagiosus C

Ultantic VI J 1926 Exix 454
On a possible cause for pemphigus neonatorum a pre
liminary report R E krighaum Am J Obst & Gynec 1926, x1 494

Birth injuries of the brain and the pathology of early childhood A Wieciters Med Klin 19 5, xx 1646 Tentonum tears H GLATZ Ztschr f Geburtsh u

Gynack 1923 IXXXIX 325 The surgical treatment of intracranial hamorrhage in

the newborn W O OTT Texas State J M 1926, xxx 7°1 Hepatic tissue in the spleen of a newborn child SCHNYPER Zentralbl f allg Path u path, Anat, 1926 XXXVII 40

Familial habitual icterus neonatorum F HILGENBERG Monatsschr f Geburtsh u Gynaek 1925, lxx 61

Grave gastro-intestinal hæmorrhages in a newborn child blood transfusion recovery VORON, RHENTER and BAN SILLON Bull Soc d'obst et de gynée de Par, 1926 vv

181 Hamaturia in the newborn child N Dale Med J Australia 1926 1 385

Vulsovaginitis in infants and young children P F WILLIAMS Am J Obst & Gynee 1926 xt 487

#### Miscellaneous

The danger of women in industry for pregnancy labor the puerperium and the raising of children with particular reference to the textile industry M Hirson Arch f Frauenk u Konstitutionsforsch 19°5 x 317

Hamilbook of obstetrics A Doederlein 1923 Munich, Bergmann

Comparative obstetries Gordon N Zealand M J. 1926 xxv 6, A study of vital statistics with special reference to the obstetrical specialist H A STEPHENSON Surg Clin N

Am 1926 VI 449 The problem of rural obstetrics and pediatrics L S

BLACHLY J Ollahoma State M Ass 1026 UT 00 The accessory duties of the obstetrician M P RUCKER South M & S 19 6 lxxxiii \*14

An unusual obstetrical experience J J Lindsay J South Carolina M Ass 1926 xxii 84 Some successes and failures in obstetrics R. A WEST

I Kansas M Soc 1926 xxvn 107 Misfortunes carelessness and inefficiency in obstetries H Sellheim Zentralbl f Gynaek, 1926 1, 1

Handbook of obstetrical operations A. DOEDERLEY

Munich Bergmann Obstetrical surgery and obstetrics of the practitioner

A P Rassos Bull Soc d'obst et de gynée de Par 10 6 Interferometric studies in the field of obstetrics and

gynecology RITTERSHAUS Arch f Gynael, 1925 exxi 627 630 Interferometric studies in the field of obstetrics and

gynecology STRECK Arch f Gynael 1925 CXX 6 8 Capillary microscopy in its relation to the study of

twins R MAYER LIST and G HUEBEVER. Muenchen med Wehnschr, 1925 lxxii 2185 The determination of the ergotamin ergotovine and

titer of ergot hy means of frogs and preparations of frog s blood vessel T Masuna. Biochem Zischr 19 5 ckmi The pharmacological evaluation of the ergotamin con

tent of various ergot preparations J MARN and M REINERT Biochem Ztschr 1925 clxii 36
An ammogenetic malformation H MATHIS and H

ANGERER Arch I path Anat 19 5 cclvm 757

Shortness of the cord VORON and MOREL. Bull Soc dobst et de gynéc de Par 1926 zv 184

Blood group determinations in mothers and newborn V OHNESORGE Zentralbl f Gynael 1925 e hildren xlıx, 2884

Further studies on isohamo ag lutination (with ref erence to eclampsia ca es) C II Schweider Khn Wehnschr 1925 1V 2383

The late undings in eclamptic patients and their children R Burn Zentralbl f Gynaek 1925 vlax 2879 The luctic infectiousness of mother's milk Schwarz

Arch I Gynaek 1925 Cttl 617

A carneous mole retained fifteen months in utero I G STEVENS Proc Roy Soc Med Lond 1926 x1x

Sect Obst & Gynac 43 T G STEVENS Proc Roy Soc Hydatidiform mole Med Lond 1026 xiv Sect Obst & Gyn.ec 45 Hydatidiform mole T ( STEVENS Proc Roy Soc Med Lond 1926 xix Sect Obst & Gynge 44

#### GENITO-URINARY SURGERY

#### Adrenal kidney and Ureter

Calcification of the suprarenal glands of cats D MARINE J Exper Med 1926 this 493

A study of some cases of hypernephroma A L CHUTE

Boston M & S J 1926 exciv 471

Addison's disease—with report of cases W H SWAN and L W BORTREE Boston M & S J 1926 exciv 712 Bacteriological studies of cases of perirenal suppuration CIRILLO I d urol med et chir 1925 vv 452 [126] The clinical importance of congenital deformities of the G CIRILLO kidness in the gene is of diverse affections of these orga is

F CATHELIN Urol & Cutan Rev 1926 xxx 193 Cro sed dystoms of the Lidney 1 J Courtos

Lancet 1926 ccx 810

An addre s on nephrosis W Boyn Canadran M Ass ] 1026 TV1 349

in experimental study of the pathogenesis of hydro nephro is T Hranks Surg Clin N Am 1026 vi 350 Deperimental hydronephro is the effect of ligature of one branch of the r nal arters on its rate of development

IV Simultaneous ligation of the posterior branch of the renal artery and the ureter on the same side F HIVMAN and A B HEPLER Arch burg 1926 to 830 The pathogeness and treatm at of slight idiopathic

hydronephrosis O MERCIER I durol med et chir 1925 77 46 Solitary hamorrhagic cysts of the kidney with the report of a case originating in a cavernous hæmangioma

C Brice Brit J Surg 1926 xiii 649 The polycystic hidres W J Wallace and B A Haves

South M J 1026 x1x 310

Serous cysts of the kidney and conservative operation VI LAQUIÈRE I de chir 1925 xxv1 25 t benign and curable torm of hamorrhagic nephritis

G BAFHR I Am M Ass 1026 lyxxvi 1001 The diagnostic value of pyelography R K fee Brown Med J Australia 1920 1 460

A case of pielonephritis with persistent hæmatuma L Vaccaro Mrd J & Rec. 1920 extil 490

Pyclitis as a po toperative complication W M
MALONEY and F H GRACCO Am J Obst & Gynec 1926 13 579

A report of fifty cases of pyelitis in children R M LORD Rhode Island M J 1916 is SI Hexylre oranol in bacillus proteus pyelitis with the

report of a case W F McCurry I Med Ass Ceorgia 19 6 1V 1 1 The treatment of pyelitis W P Holanes I Med Ass

Georgia 1026 IV 128 Suberculosis of the kidney its diagnosis and treatment

H II YOUNG J Michigan State M Soc 1026 xxv The diagnosis and conservative treatment of renal

calcult A STRACHSTEIN Med J & Rec 1926 cvan 426 The technique of renal denervation II RUBRITIUS Verhandl d deutsch Ge ellsch f Urol 1925 P 147

Litration of the results of nephrectomy for undateral tuberculosis by tuberculous le ions outside the kidneys CONDAMN I durol med et chir 1926 xxi 31 Deaths from nephrectomy for tuberculosis based on the constant Commence and Pasteau J durol med et chir 102, xt 492 [127]

Function of the autogenous kidney transplant K Buda Am J M Se 1736 Civil 40 [128] Function of the homogenous kidney transplant K Buda Am J M Se 1736 Civil 420 An unusual instance of reduplication of the ureter and

Pelvis J k Ornovo J Urol 1926 zv 39, Anuria for seven days after catheterization of the

ureters M I APIN J durol med et char 1925 xt [[28] Ureteral calculi E C BALLENGER and E F Elber

South 11 I roz6 xix 106 Ureteral stone non-operative in trumental removal

BOEHRINGE R Verhandl d deutsch Gesell ch i Urel 1923 p 91 Hydronephrosis eight years after ligature of the ureter during the operation of hysterectomy If I I ATERSON Proc Roy Soc Med Lond 1926 xiv Sect Obst &

Gynar 60 Obliveration of the ureter in gynecological practice and the resulting hydronephrosis M Floris Riv ital di

ginec 1923 n 35 [129]
The results of a ureterorrhaphy at the end of nineteen years Bouchard and I voucere J d urol med et chir 1926 XU 39 Primary tumors of the ureter R I STEWART But

J Surg 1920 vill 607

#### Bladder Urethra and Penis

Short lamps for the cystoscope R JAHR Ztschr f Urol 1925 xix 721 An unusual case of rupture of the bladder during

evstaradiography J REISER J durol med et chir 1925 XX 382 Foreign bodies in the bladder W T Brices I Urol

1026 TV 353 Migration of foreign bodies from the abdomen into the umpary bladder G Monaschkis Zischr i urol Chir 1026 517 8,

Expulsion of a foreign body which had wandered into the bladder H BERGER Muenchen med Wchnschr 1923 1xx11 230

Absence of a shadow in roentgenography for vesical ralculi P Bazy J durol med et chir 1025 xx 360

Unusual bladder obstruction W J WALLACE [136] Urol 1926 tv 325 So-called congenital diverticula of the bladder

I the Ztschr f urol Chir 1925 vvili 278 Granular cystotis nodular and cystic L Scheelf Verhandl d deutsch Cesellsch f Urol 1925 p 255 [130]

Therapeutic indications in spermatocystitis Luxs Bull et mem Soc d chirurgiens de Par 1926 viii 1 The question of ovarian vesical fistule K FRONSTEIN and M SSERDJUKOFF Ztschr f urol Chir 1926 vrv 102

A new technique of total cystectomy in the female A Cassuro Arch ital dichir, 19 6 xx, 31

Extrameatal prolapse of the urethra with the report of

a case having an acute onset W T DANNELTHER
Am J Obst & Gynec 1926 vi 468
Intropertural characteristics Intraurethral chancroids report of a case W D

GOODMAN J Urol 1926 XV 403 A case of gummata of the urethra N M Gibson and

C I WILEY Med J Australia ro 6 1 43,

Further observations on the anatomy and histology of tumors of the female urethra with particular reference to the female prostate O SACHS Ztschr f Urol 1925 TIX

Cauters circumcision I G Duncan Urol & Cutan Rev 1926, XXX 193

#### Genital Organs

A case of abscess of the prostate evidenced by phleg monous phenomena in the two ischiorectal angles. Le MOINE and ISELIN Bull et mem Soc d chirurgiens de

Par 1020 XVIII 5

Physiotherapy in the treatment of prostatic disturbances
W. C. Chaney J. Kansas M. Soc. 1926 xxv. 113 Concerning radiotherapy of prostatic adenoma Legueu Urol & Cutan Rev. 1926 xxx 194

The pre-operative and postoperative treatment of prostatic disea e R L Privian South M & S 1926

Ob ervations bearing upon the operation of prostated my I Cohen E C Dodds and C H S Webb

tomy I Cohen E C 190805 Brit J Surg 19 6 vin 656 Epidural anaesthesia for penneal prostatectomy an experimental and clinical study with a report of 100 con secutive cases E C SHAW J Urol 1926 xv 219 [131] An operation for incontinence of urine following perineal prostatectomy E L LEYES Surg Gynec & Obst 1026

xlu 423 113tl Pyclonephritis after prostatectomy G GAYET and R

Peaceton J d urol méd et chit 1925 xx 371 [131]
Suppurating gonococcal epidid mitts P C P I NGRAM
Brit M J 1926 1 653 [131]

A case of internal masculine pseudohermaphroditrsm S Davidovic Zentralbl I Chir 1926 hir 70

Case of the eunucloud type with undescended testicles H GARDINER HILL Proc Roy Soc Vied Lond 1926 ux, Clin Sect 23

A case of ectopic testis F Bernhard Zentralbl f Chir 1925 lu 239

Penile luration of the testis W Kausch Zentralbl

f Chir 1923 lu 866

The evolution of the testicles of the bull after crushing the vas deferens E RETTERER J durol med et chir 19 6 XXI 14

Neoplasms of the testicle II W B CAIRNS Lancet,

Myoma of the gubernaculum testis Deutsche Zischr f Chir 1925 exciv 138

Chononic carcinoma in the testicle with a report of a

riew case R M H Joves Brit J Surg 1926 xiii 606 Massree bilateral hydrocele S R Woodruff J Urol 1926 Xv 407 Spermatocele M DORNE J Urol 1926 xv 380

Myxofibroma of the scrotum-a case report A HARRIS Urol & Cutan Rev 1926 XXX 200

#### Miscellaneous

Urology in surgical differential diagnosis A E Sohmer Mrnnesota Med 1026 1X 161

A contribution to the technique of urography S R WOODRUFF Med J & Rec 1926, CXXIII 440

Radiology in urmary surgery J THOMSON WALKER Bnt M J 1926 1 656

The disease of urmary stones H Nakano Verhandl d deutsch Geselisch f Urol, 19, p 93

Focal infection in relationship to pyuria and hæmaturia L. L. Solomov Med Times 1926 liv 86

Chinical results with intravenous chemotherapy in urinary infections W F Brasch and H C Bumpus Jr J Urol 1926 v. 341

The therapeutic value of mercurochrome hexamethy lenamin and hexylrescorcinol in cases of experimental umnary infection in rabbits H F HELMHOLZ and K S FIELD J Urol 19 6 TV 351

Urnary antisepsis—the clinical application of experimental data E DAVIS Minnesota Med 1926 iv 151 Herylresorcinol in unnary tract infections in women

H M N WYNE Minnesota Med 1926 iv 156 The venereal disease problem with the American forces in Germany M A READOVER Vil Surgeon 1926 Ivin

Why chronic gonorrhoes in the male? P S PELOUZE

Atlantic M J 19 6 xxxx 464

Complement fixation in chancroidal infection C C

SAELBOF Urol & Cutan Res rg 6 xxx 2 4

A review of urological surgery A J School E S Judd L D Keyser G S Foulds and J Verbrucce Arch Surg 10 6 xii 028 Gentleness in genito-urinary surgery J B Clark

J 1m M 4ss 1926 lxxxv1 rr89

The management of postoperative retention of the urine with potassium. H REIMER Muenchen med Webn-chr 1925 lxxii 18,6

Long standing anuna certain associated phenomena W A Myers J Am M Ass 1926 lxxxvi 1798

## SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

Conditions of the Bones Joints Muscles Tendons Etc

Influence of posture on the development of the child T TOEPEL South M J 19 6 vix 6,

Interstitial growth in growing long bones S L HAAS \rch Surg 1926 til 887

Defects in the membranous bones diabetes in sipidus and exophthalmos report of a case B S DENZER Am J Dis Child 1926 txx1 480

Osteogenesis imperfecta L H Winans Internat J Med & Surg 1920 XXXX 154

Traumatic osteochondrolysis K VON DITTRICH Arch I path Anat 19 5 cclvm ,95

The effect of chronic inflammation on ossification R GRALKA Fortschr a d Geb d Roentgenstrahlen

19 5 XXXIII 735 Experimental studies on the subject of osteoporosis and nckets C R H Rabl. Arch f klin Chir 1925 CXXXVII, 619

Renal rickets G V ASHCROFT J Bone & Joint Surg 1026 VIII 270

The diagnosi of tuberculosis of bones and joints R M Downes Med J Australia 1926 1 404

Non suppurative osteomyehus with the report of an unusual case M HARBIN J Bone & Joint Sur, 1926 [133] VIII 401 Abscess of the bones P Mocquer Bull et mem Soc nat de chir 19 6 lii 330

The roentgen diagnosis of the nature of bone tumors before operation MALCLAIRE Bull et mem Soc nat

de chir 1926 in 64 Angio endothelioma of bone A LOLODAY Arch

Surg 1926 xii 854 Endothelial myeloma Ewing report of fifty four cases

C L CONOR Arch Surg 1926 vii 739 establishing the diagnosis of osteogenic arcoma II Thirteen registered cases of five year cures analyzed ac ording to these criteria E A Codman Surg Gynec

& Obst 1026 th 391 Traumatic bone sarcoma W B Coney Ann Surg

1926 Pretili 54 Bone formation occurring in osteogenic sarcoma teleo-loric considerations E H EISING Arch Surg 19 6

The radiological aspect of certain forms of osteochondri C MACDONALD Med J Australia 19 6 1 42 Multiple osteochondminatosis J Epsters Med J

& Rec 1926 CTXIII 494 Multiple cartilaginous exostoses a clinical contribution I BURGAMANN Zischr i orthop Chir 1924 alvii 70 W H COLE Surg Gynec & Chondredy plasia

Obst 1926 thi 359
The problem of juxta articular node formation M
ZUR VERTH Arch f Schiffs u Tropen Hyg 1925 taxx [133]

The classification of arthritis C F PAINTER J Bone

& Joint Surg 1926 viii 354 The infective arthritides A M FOREE J Bone & Joint Sarg 1926 viii 3 4

Non infective arthritis in women L P CUMBERBATCH and C A ROBINSO : Brit M J 1926 1 612 [134] Gonorrhoral arthritis B B Hurd Urol & Cutan Rev

1026 XXX 106 A clinical discussion of chronic joint disease H Ass MANN Fortschr a d Ceb d Roentgenstrahlen 19 5 too tilxxf

Functional treatment of chronic joint diseases J FUCHS Zentralbl f Chir 1925 lii 28 6 A new method for the treatment of chrome disease of

the joints V Chlumsky Zentralbl f Chir 1925 hi Sections illustrating the histology of xanthomatous

infiltration of tendons G B Dowling Proc Roy Soc Med Lond 19 6 vix Sect Dermatol 25 Myositis os ificans progressiva case report and review of the literature L F MAGRUDER Am J Roentgenol

1026 TV 328 Osteitis deformans involving the cranial bones with changes in the auditory apparatus H M BECKER Atlantic M J 1926 XXIX 458

Disabilities of the shoulder region I N Morris Med J Australia 10 6 1 432 Hypertrophy congenital of the left shoulder gurdle arm

and hand with na vus and varicose veins E G WAKE FIELD Am J M Sc 1925 class 560

A traumatic giant cell tumor of the clavicle A R Kilgore and W E Chamberlain Surg Clin N Am 1926 VI 509

A tranmatic flat tumor of the upper arm SONNTAG Deutsche med Wchnschr 19 5 h 123 Report of a case of solitary fibrocystic di ease of the

humerus exhibiting spontaneous resolution with a review of the literature and a consideration of the etiology and

treatment A W ADAMS Brit J Surg 1926 xiii 734
The prognosis of tennis elbow k Ochsenius Deutsche med Wchnschr 10 5 li 1088 Bilateral Charcot a joint disease of the elbow C F

MITCHELL and W. E. LEE Ann Surg 1926 IXXXIII 568 Two cases of subcutaneous rupture of the long head of the biceps flevor cubit: E L GILCREEST Surg Clin N Am 1926 VI 547 Dupuytren's contraction L W LLY Surg Clin N

Ara. 1926 VI 421 An implantation dermoid of the terminal phalans of the

thumb H Burrows Brit J Surg 1926 xiii 76r A chondrosarcoma of the index finger C H LEE Brit M J 1926 1 616

Suppurative posityphoid inflammations of the costal cartila e V J Opposoff and L P Opojewsky Arch f path Anat 1025 celum 121
The spine B W BYYLESS Kentucky M J 1926

TTIV 193 Sternocleidomastoid torticollis A Broca Med

Press 1926 ns cvvi 201 A case of chordoma of the cervical vertebra with in volvement of the pharynx W S SYME and D F CAP PELL I Laryngol & Otol 1026 vli 00 [134]

The conditions of scoliosis development A FARRAS Ztschr f orthop Chir 1925 tlvii 1 On the treatment and prognosis in true scoliosis E

Gasve Med I ress 1926 clean 273 Pott's disease A. ROLLIER J Bone & Joint Surg 1926 Viu 360

Tuberculosis of the spine A L Fisher Surg Clin N Am 19 6 v1 473 The tudy of staphylococcic spondylitis in an adult P A M LABORDS Presse med Par 1926 TERM 314 Shenton's line (of the hip) C RENVER Zentralbl f

Chir 102, in 2375

Acute synovitis of the hip in young children S KIEN BERG Arch Pediat 1926 vin 215 A theory as to the cau e of Lerthe disease based on

roentgenological findings J M BERRY J Bone & Joint Surg 1926 vul 333 [135] The clinical ob cryations after healing of Calvé I erthe disease compared with the final deformities left by that

disease and the bearing of the e final deformities on the ultimate prognosis P F Mørler Acta radiol 10 6. A cas of cavernous angioma of the vastus internus

muscle A Branchert Arch ital dichir 19 6 xv 101 Reducible herma of a lipoma of the knee joint W S HANDLEY But J Surg 19 6 xin 762

Chronic septic arthritis noht lines B L COLEY Am J Sur, 1926 xl 89 Artificial limbs their relation to the different types of

A B LEMESURIER J Bone & amputation stump Joint Surg 19 6 viu 292

Normalization of artificial limb L ROSENFELD Aerztl Monats chr 1925 p 289

Congenital malposition of the left fibula G E Bennett J Bone & Jornt Surg 1926 viii 405

Bone absc sses of the lower end of the tibia AUVRAY Bull et mém Soc nat de chir 1926 ln 321 Hammer toe L W ELY Surg Chn N Am 1926

Hallux valgus L W ELY Surg Clin N Am 1926

VI 425

March foot M JANSEN J Bone & Joint Surg , 1926, VIII 262

The que tion of flat foot H Von Revesse Aerztl

Monats chr 1925 p 271 The development of flat foot associated with amputation of the leg and its elevation by plates or orthopedic shoes M ZUR VERTH Aerzti Monatsschr 19 3 p 72

Unusual articulation of the astragafu and the o calcis C E FARR J Am. VI Ass 19 6 lxxxvi 1128

Surgery of the Bones, Joints, Muscles, Tendons Etc

Studies on bone explantation E Lies. Arch f klin Chir 19 5 CXXXVII 635

Autoplastic bone transplantation from the standpoint of biology and architecture V HOFF ANN Arch I Llin

Chir 1925 CXXXV 413

The treatment of myefomata by curettage and auto genous cancellous grafting I B HANCE Indian M Caz 1026 lx1 120 Aspiration of the joints its value as a therapeutic pro

cedure in septic joints of low virulency R C LONERGAN Boston M & S J 1926 CXCIV, 661 Disinfection of septic joints F J Corrox J Bone &

Joint Surg 1926, viii 395 [136] A simple method for stabilization of the shoulder R

KURZMINN Med Llin, 1925 TXI 1958 Resection of the lower end of the humerus for a gun

shot wound findings eight years after the operation LATREILLE Rev dorthop 1925 EXXI 551 [136]

A plastic operation for the repair of a traumatic am putation of the end of a finger E L GILCREEST Surg

Clin \ Am. 19 6 vi 555
Autotran plantation of a toe for traumatic loss of a finger J E Fun J Am M Ass 19 6 lxxvv 1 br Skin plastics in the treatment of traumatic le ions of the hand and forearm H H M Lyle Ann Surg 1926

lxxxu 537 Tendon transplantations for division of the extentor

tendon of the fingers L Mayer J Bone & Joint Sur. 10 6 viu 183 [136] Free tendon grafts for loss of the exten or tendons of the hand Lyle Ann Surg 1926 lyxun 533

Plaster shells in the treatment of tuberculosis and fracture of the pine A P Mackeson Canadian M Asa J 19 6 xvi 399 [137] A new scolosis operation H son BAEYER Zentrafbl

I Chir 1926 lin go

The treatment of scolio-is according to Loeffler A GRUCA Zentralbl f Chur 1925 fu 2761

Modification of a turnbuckle joint for the treatment of coliosis suggestion as to management. C M PEASE J Am M Ass 1926 Ixxxv1 128

Proposed operation for abductor parafysis of the hip

P C COLONA J Med Soc \ Jercey 19 6 xxiii 17/ The technique of operation for a gigantic malignant tumor of the thigh C PERRET Prese med Par 19 6

Arthrotomy of the knee joint, \ GRZYWA Arch f klin Chir, 1925 CTXXVII 453

Arthrotomy for knee joint calculi J J MOORHEAD Ann Surg 1926 lxxxii 392

The popliteal (Brackett) operation for loose body in the knee a case report S Epstein Am J burg 19 6 xl

A steel fragment in the knee joint removal by magnet M k Surre Am J Surg 1926 tl 91

The end result of mobilization of a knee joint according to Schepefmann's method R Box Deutsche Ztschr f Chir 1925 exciv 114

An apparatus for the correction of flexion contracture of the knee W C CAMPBELL and J M MITCHNER J Bone & Toint Surg 1926 VIII 416

The treatment of genu valgum by the introduction of mory pegs L RESCHEE Arch f Ulm Chir 1925 CXXXVII 459

Exarticulation at the Lnee joint L ELOESSER, Surg Clin \ Am. 19 6 v1 407

A traction foop for the foot J L PORTER J Bone & Joint Surg 19 6 vin 414 A clubfoot wrench D R Telson J Bone & Joint

Sur, 19 6 viii 4 5 The surgical treatment of dangle foot R. OLLEREN

SHAW Brit M J 19 6 1 525 [138]
Anterior tarsectomy (Olher) in tuberculosis of the anterior tarsus E S GEIST J Bone & Joint Surg 10 0 VIII 410

The hallux valgus operation and the treatment of arthritis deformans E PAYR Zentralbf f Chir 1975 la oto

#### Fractures and Dislocations

A spontaneous fracture following bone banding for frac tures C C GARR J Bone & Joint Surg 19 6 vin

The fracture cryptoscope M SGALITZER Zentralb! f Chir 1926 lin 08

Leverage and levers in the reduction of fracture J E M THOMSON Nebraska State M J 19 6, x 98

Concerning osteo-ynthe is P THIERY Bull of mem. Soc nat de chir roz6 in 304

hir chner's method of bone suture H Herss Zen trafbl f Chir 1925 lu 2819
The after-care of fractures J GROSSMAN Med Times

196 Ltv 9 St Luke's fracture bed R L DRESEL J Bone &

Joint Surg 19 6 VIII 4 7 Subperiosteal fractures with irreducible dislocation of the fragments E MUELLER Zentralbl f Chir ro26

Disfocation of the acromioclavicular joint J RIDDEL Brit M J 19 6 1 697

Fracture di location at the houlder joint Hitznor Ann Surg 1926 lxxxii 562

Simuftaneous dislocation of both of the shoulder joints A P HEINECK. Med Herald & Physiotherap 1926

Fractures of the upper end of the humerus with abduc tion of the superior fragment BARBARIA Bull et mem

Soc d chirurgiens de Par 19 6 tvin 4 Fracture of the anatomical neck with extracapsular dis-placement of the humeral head MALCLAIRE Bulf et

mem Soc nat de chir 1926 lu 238 Distraction apparatus for fractures of the arm and fore arm L Moszkowicz Wien Llin, Wchnschr 19 3

XXXVIII I O Di traction apparatus for the management of upper

arm fractures C Ewild Wien. Ilin Wchuschr 10 , ххххии 16 4

Prolonged traction treatment of upper and lower leg fractures with Braun's apparatus A LEHRNBECHER Beitr z klin Chir 1925 cxxxv 18

Fractures about the clow joint a review of 150 cases end results in fifty two cases H H. RITTER W W. LASHER G L. WURTZEL and D GOLDBLATT J Aro M Ass 1926 lxxxv1 680

Screwing of the olecranon C DUARDER, Bull et mem. Soc nat. de chir 1026 hi 18

Discussion on the treatment of fractures of the forearm excluding fractures of the olegranon and those of the lower end of the radius of the Colles type St J D BUXTON
H \ T FAIRBANK J MENNELL E G SLESINGER and
others I roc Roy Soc Med Lond 1926 vix Sect Orthop 17

Luxation of the os magnum Gervez Bull et mem

Soc nat de chir roz6 lu 258 Subtotal retrolunar luvation of the carpus F M CADENAT Bull et mém Soc nat de chir 1926 lii 262 Fracture of the carpal bones P \ BENDINE \ Med. Herald & Physiotherap ro26 vlv 80

An unusual complication of fracture of the pelvis L L

GARDNER Mil Surgeon 1926 Ivili 392 Congenital dislocation of the hip \ Purri Surg Gynec & Obst 1026 xlii 440

A case of bilateral congenital dislocation of the hip

H H MARKEL Surg Clin N Am 1926 vi 533 Spontaneous cure of congenital luxations of the hip H KRUKENBERG Ztschr f orthop Chir rogs xlen 19

Fracture of the acetabulum with inward luxation of the ischium P Erlachter Zentralbl f Chir 1925 lii 2835 Fibrosarcoma of soft parts causing a pathological frac ture of the femur and giving the \ ray appearance of a perio teal sarcoma \ R KILGORE and W E Citau BERLAIN Surg Clin N Am 1026 ve 505

Fracture of the neck of the femur reconstruction opera tion W C WRITE Ann Surg 1916 PERSON 560

Results of the non operative treatment of medial frac tures of the femoral neck PORTWICH Deutsche Zische

f Chir 1923 excil 143 A fissured fracture of the thigh with few symptoms until a month later HAL BANHAM Brit MJ 1026 1 615
Fractures of the femur in children WA CLARK I Bone & Joint Sur, 1926 vill 2/3

Mechanical employment of sequestrum fracture of the femur I H ALBEE J Bone & Joint Surg 1926 vill

325 Fracture of the patella E RICFORD Surg Clin \ Isolated communuted fracture of the malleolus of the

M GELDMACHER Muenchen med Wehnschr 1925 lvtu 2200 Fractures at the ankle F A McLalghin Med

Press 1926 clxxn 275 Total external luxation of Lisfranc's articulation sais

factory functional result in spite of its absence L Plissos and C LENORMANT Bull et mem Soc nat de chir roze lu 200

Fractures of the internal sesamoid of the great toe. I GUITTON Presse med I ar 1926 xxxiv 310

The so called infraction of the second metatarsal bone A H FREIBERG J Bone & Joint Surg 1926 viii 25

#### Orthopedics in General

Some remarks on the training and activities of the orthopedic surgeon Sir R Jones J Bone & Joint Surg 1076 VIII 247 A simple removable head suspension sling P Lewis

Bone & Joint Surg 1926 viii 422 Latension apparatus with axial ten ion T Four. Zentralbl f Chir 1926 lm 76

Secondary injuries from the carrying of a prosthesis WETTE Aerztl Monatsschr 1925 p 262

The origin and spread of the sacro-iliac idea and its menace C F PAINTER Boston M & S J 1926 CXCIV

The danger of proton ed immobilization of the joints H DEBRUNNER Schweiz med Wehnschr 19 g lv 602

## SURGERY OF THE BLOOD AND LYMPH SYSTEMS

#### Blood Vessels

The histophysiology of the arterial wall N Avrtsch aon Klin Wehn chr 1925 iv 2233 Disorders of the capillary vessels as a factor in di case H M WALKER Glascow of J 1926 ns viii 286

In attempt to strengthen the denuded blood vessel wall with fascia N J Gunewirscit Zentralbl f Chir r925 lu 258t

Blood vessel transplantation A ZABLUDOWSKI Zen tralbl f Chir 1925 hi 2882 Transplants of the trachea in arteries P Leone Arch

ital dichir 1926 XV 15 Clinical contributions on the anatomy of the elbow region (unusual blood vessel and nerve anomalies) W

LUBOSCH Deutsche Ztschr f Chir 1925 cxciv ros Ligation of the jugular vein in pygemia P Riess Zen tralbl f Chir 1925 ln 2755 Two cases of ligation of the common carotid artery

PHOCAS and CARAJANNOPOULOS Bull et mem Soc nat de chir ro26 In 268 Spontaneous rupture of the epigastric artery & BLOND

Wien klin Wchnschr 1025 vxxviii 1152 The blood vessel and nerve canal of the popliteal space

W LUBOSCH Anat Anz 1025 ly 300 Low traumatic arteriovenous aneurism of the popliteal space in the course of regre ion Dugier Bull et mem Soc nat de chir 1926 lu 287

The prevention of thromboses L GELPKE Schweiz med Wehnschr 1925 lv 518

Thrombo angutis obliterans I D CLARIDGE Illinoi

M J 1926 thr 328
Postoperative blood changes in thrombosis
Hetsser Schweiz med Wichnschr 1925 b 518 The minor symptoms of traumatic ob truction of the arteries of the limbs E MELCHIOR Med Klin 1925 val

Cavernoma of the thigh J M Hirzkot Ann Surg 1926 Ivvan 566

Expenences with klapp's discresion in vancose veins F BANGE Zentralbl Chir 1925 lu 2696 Ifæmangioma of the leg G Bell and K Inglis Brit

J Surg 1926 vui 695

#### Blood Transfusion

What can we expect from the reaction of the sedimenta tion of the red blood cells? W STEMMLER Arch f klin Chir 1925 CTTXVII 705

The question of substitutions for the loss of fluid due to serious hamorrhages F Bricker F Suponitzkaja and A Tacharni Ztschr f d ges exper Med 1926

thm 451 The four human blood groups with special reference to their agglutmation titer and to abnormal donors. A. R. JONES and E CLYNN J Path & Bacteriol 1926 THE

203 A study of the effect of ether anæsthesia on the iso agglutinins of buman blood P REIGHERT and M Brake 1m J Obst & Gynec 1026 x1 569

Blood transfusion indications and methods POWELL J Iowa State M Soc 1926 xv1 180

The technique of blood transfusion R STAIL chen med Wchnschr 1925 lxxii 195

A method for direct blood transfusion J CLEMENS

Zentralbl f Chir 1923 ln 2772
The causes of injury from blood transfusion E Hem
PEL Muenchen med Wchnschr 1925 lxxii 2046 Posttransfusion reactions a review of 190 transfusions

performed at the Woman's Hospital New York City M C Souter and G D DURYER Am J Obst & Gynec 10 6 x1 569

Diseases of the blood a presentation for the practi tioner G Rosevow 1025 Berlin Springer

A case of marked hæmophilia in the course of lithiasic icterus transfusions operation followed by recovery EMILE WEIL and STIEFFEL Bull et mem Soc med d

hôp de Par 10 6 vin 55 Experimental hone marrow reactions I Anamia pro duced by collargol G L MULLER J Exper Med 19 6

A case of polycythæmia temporarily influenced by a normal delivery E Paulicek Med klin, 1925 vvi

The intestinal origin of pernicious anamia K FABER

Ann Clin Med, 19 6 15 ,88 The treatment of splenomedullary leukæmia hy deep Year therapy (Erlangen method) J GRACIE Practi

troner 10 6 CXX1 320 Blood regeneration N B Eppy and A W Dows Canadian VI Ass J, 1926 VVI 391

#### Lymph Vessels and Glands

The treatment of tuberculous lympadenitis by cinnamic benzyl ether J Jacobsov Bull et mém Soc méd d hôp de Par 1923 xli 1329 [139] [139] Tuberculous adenitis treated with radium P Gosse

Lancet 1926 ccx 862 The anatomicosurgical relations of the thoracic duct to

the sympathetic nerves in the neck S MINKIN Arch f khn Chir 19 3, cexxvii 646

Hodgkin's disease in man and animals Sir H ROLLES TON G H WOOLBRIDGE H M FLETCHER L PUGH and others Proc Roy Soc Med Lond 1926 TIX Sect Med

& Comparative Med 39 [139] A case of congenital elephantiasis W Brand Arch f

Linderh 19 3 lxxx1 101

## SURGICAL TECHNIQUE

Operative Surgery and Technique Postoperative Treatment

Pre operative and postoperative care L MAYER Bruvelles med 1926 vi 552

Methods of removing anæsthetic gases from the operating room J Wieloch Zentralbl f Gynael 1925 Surgery in the presence of diabetes E S Jupo R M

WILDER and S F ADAMS J Am W Ass 10 6 IXXXVI

Surgery in the presence of diabetes mellitus L J PALMER Northwest Med 1926 xxx 196 11411 Sponge control in the operating room P H TETT J Indiana State M Ass 1926 XIX 152

Recovery after massage of the heart W G BALL Brit M J 1926 1 732

The rational treatment of hurns G FRATTIN Zen tralbl Chir 1926 lin 201

Hypertonic odium chloride solution intravenously m the treatment of extensive superficial burns I A BIGGER South M J 1926 tit 30 A rational management of skin grafts F SMITH Surg Cynec & Obst 1926 tlu 556

The extended use of the whole thickness skin graft P P Core Practitioner 1926 Cavi 311

A plastic for the effects of extensive burns of the fore arm and wrist H H M Lyle Ann Surg 19 6 lyxxiii

The rubber dam in surgery H LILIENTHAL Am J Surg 1926 tl 86

Postoperative leucocytosis M S WITTER and W P ELLIOTT Am J Obst & Gynec 1926 vi 555 External drainage of wounds GAUTHIER Bull et mem Soc nat de chir 1926 lu 316

Suppression of postoperative pain by genoscopolamine O LAMBRET Bull et mem Soc nat de chir 1926 In

Mentopin in the prevention of postoperative pul monary complications H J WILLERDING Deutsche med Wchnschr 1926 hi 65

The technique of autoblood treatment of postoperative bronchitis and pneumonia W GRAEF Zentralhl f Chir 19 6 lui 143

The technique of autoblood treatment of postoperative bronchitis and pneumonia H REIMANN Zentralbl f Chir 1026 ltu 144

Antiseptic Surgery Treatment of Wounds and Infections

New methods of wound treatment SCHNELL Ztschr f med Chem 1923 in 33

Remarks on healing by first intention W BLOCK
Zentralbl f Chir 1923 hi 2932

The treatment of poorly nounshed tissue with heated orgen S Lieber Med klin 1925 xxi 1938
Wound infections J H Woolsey Surg Clin N Im 1926 VI 557

New experiences with protein body and sulphur treat B DOLLINGER Wien Lin Wchnschr 1025 111VIII 1260

Autoblood or autoserum' J Vorschuerz Deutsche med Wchnschr 1925 li 1954 Some stati tics on the metabolism of the healthy and

diseased organism after parenteral milk injections. W Burono Arch f Gynaek 1925 CXXV1 291

Experimental studies on the localized action of mixtures of blood and rivanol on spreading pyogenic processes I Barth Beitr z llin Chir 19 5 CVXX 348

The treatment of wounds with rivanol Ztschr f Immunitaetsforsch u exper Therap 1925

Experimental studies on the effect of Pregl's iodine solu tions A MAHVERT Wien klin Wchnschr 1925 TXXVIII

Comparative experiments in the local treatment of wounds of the skin with trypaflavin on the one hand and fresheming of the wound edges on the other S NIKA MURA Arch f kin Chir 1925 CXXXVII 330
Mercurochrome in surgery S W JOHNSTON New

Orleans M & S J 1926 Ixxviii 6.6

The use of mercurochrome in children H Lowenburg Arch Pediat 1026 xlin 244 The treatment of wounds traumatic and sentic with

170

dichloramine T D S ADAMs Boston M & S I 1026 CYCIV 737 Roentgen treatment of spontaneous posttraumatic and postoperative coccus infections and suppurations. Holz

ANECHT Am J Roentgenol 1926 xv 332 The treatment of furuncles and carbuncles 1 SILBER

STEIN Ztschr f aertzl Fortbild 1925 UN 745 External salicylate therapy in furuncles Von Gros SCHOPER Deut che med Wchnichr 19 5 h 1955

The treatment of Rosenbach's erysipeloid or erysipelas in man k Nowakowski Deutsche med Wehnschr 1925 4 317

#### Anæsthesla

Teaching anasthesia W H Long and D C ELLIGIT Anes & Anal 1926 > 57 What is the present day attitude of the medical pro-

fession toward the anæsthetist? I MARTIN Anes & Anal 19 6 V 59
The choice of an anosthetic L S Brown New

Orleans M & S J 10 6 lvvvm box Circulatory changes in anæsthesia and the use of oxygen

L HILL Brit M J 1926 1 720 Annora dyspinged and evanosis in relation to anaesthesia M S PEMBREY and F E SHIPWAY Proc Roy Soc Med Lond 1926 vix Sect Anses 9

The importance of lobelin in surgery in conditions of angesthetic apagea and collap e N HOLTMANN Klin

Wchnschr 1925 IV 2346 Nitrous oxide its impurities and the establishment of tests suitable for official adoption C F HADFIELD Proc

Roy Soc Med Lond 19 6 vit Sect Anas 17 Nitrous oude-oxygen in evodontia compared with other annithetics E I Mckessov Anes & Anal 1926 v 64

A simple method of eliminating the danger of explosion due to static spark in the nitrous oxide oxygen apparatus W B LEWIS and L F BOEHM Bull Battle Creek Samt &

Hosp Clin Battle Creek Michigan 1926 xvi 127 Studies in the improvement of ether narcosis F STARLINGER Zischr f d ges exper Med 1925 zlvm

Acetylen as a general anæsthetic C Heymans Vlaamsch geneesk tijdschr 19 5 vi 665

The place of ethylene in anæsthesia A E Guener.

Anes & Anal 1026 v 86 The increase of the application of paravertebral injections F Mandl Kim Wehnschr 1925 iv 356
Fyderiences with lumbar anaesthesia K Warnecke

Zentralbi f Gynael. 1025 xlix 2765

Recent developments in the technique of regional anas thesia W R Meeker Clin Med 1926 xxxiii 2 5 [142] An improved syringe and needle for use in regional angsthesia J S Lunda Surg Gynec & Obst 1026

Local anaesthesia with the report of 190 cases G Y Massemburg J Med Ass Georgia 19 6 iv 136
The apparent and actual progress of local anasthesia H Semet Deutsche Monatsschr f Zahnh 1923 xlm

Butyn as a local anæsthetic in routine practice A C

CARLTON Clin Med 1926 xxxiii 49 1 textbook of local anæsthesia of the ear and the upper air and food passages C HERSCH 10 5 Stuttgart

Insulin glucose in the prevention of postanæsthetic comuting C POTTER Anes & Anal road v 69

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The steam cautery H S Southar Lancet 1926 ccv

## PHYSICOCHEMICAL METHODS IN SURGERY

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The value of the \ray in diagnosis E \Gamma Downs

J Med Soc N Jersey 1926 true 160 Roentgen evamination following accidents G BAER Schweiz med Wchnschr 1925 lt 975 1000

The bactericidal effect of the roentgen rays C FERED

Strahlentherapie 1915 VU 56
Some outstanding physical considerations in radium and roentgen therapy D C A Burrs Hahneman Month 1020 ltl 00 Dosage tables a an aid to the simplification of roentgen

ray technique by the cross fire method W L MATTICK and W STENSTROEM Am J Roentgenol 1926 xv 360 Studies of roentgen dosimeters H LALKBRENNER and H KUESTNER Beitr 2 klin Chir 1925 CXXXV 303 Description of an apparatus for the direct reading of radiation measurements A CEBERT Strablentherapie

1925 XX 813 Erythema doses in ab olute units W H MEYER and

O GLASSER Radiology 1926 vi 320 Medical high frequency technique O MUELLER

1925 Leipzig Hachmeister & Thal Roentgen therapy in surgical tuberculosis Wetterstrand Acta radiol 19 5 IV 528 Further studies on physical standards of protection anainst roentgen ray dangers A MUTSCHELLER Radi

ology 1926 V1 314

The biological effects of roentgen and gamma rays R BARDEEN WISCONSIN 1 J 1926 TTV 215

#### Radium

The problem of cell respiration I The effect of radium rays on the outdation mechanism in the cell N S Kox DRATTEW Strahlentherapie 1925 XX 171

DEATJEW Strahlentherapie 1925 vx 171 A new development in radium therapy J P Mc Hurcrison and W H Brown Lancet 1926 ccx 755 [143] Surgical exposure of deep seated maccessible neoplasms

for a proper implantation with radium emanation in capil lary glass tubes by the basal route P E DURHAM N kork State J M 10 6 xtv: 301 Protection of technical assistants and of those handling

large quantities of radium or radon C H Viol Am J Roentgenol 1926 xv 345

#### Miscellaneous

Physiotherapy in general hospital practice A E SCHILLER Mod Hosp 10 6 VVVI 352

Value of physiotherapy in medicine and surgery A E JOSLYN Chica o M Rec 1926 xlviii 97

An analysis and companion of light sources used in artinotherapy T T BAKER Brit J Radiol 1926 xxx1

The efficacy of the various sources of light used in general light bath treatment A REVN Acta radiol, 1925 iv 541

New methods in the field of electrotheraps T WEISS Wien klin Wchnschr, 1925, xxxviii 1083 Galvanism—what it is and what it may be expected to accomplish in a curative way J U Giess Med Herald & Physiotherap 19 6 vlv 91

Galvanotherapy E P CUMBERBATCH Clin Med

#### MISCELLANEOUS

#### Clinical Entities—General Physiological Conditions

Agranulocytosis, with particular reference to the treat ment of the condition B PFAB Wien klin Wchnschr 1925 XXXVIII 1302

Amputation of the leg in spontaneous gangrene I
EISENKIM Wich klin Wchnschr 19 5 xxxviii 1303
The effect of pilocarpin and insulin in spontaneous gan

The effect of pilocarpin and insulin in spontaneous gan grene V R STUEHLERN M J AGULOWA, and A A BABROWA Med Klin, 1925 xxi 1765

A fibromatous tumor containing osteoclast like cells growing in the subcutaneous tissue A PINEY Brit J

Surg, 1926 xiii 752
The diagnosis of lipomata Auvray Bull et mem

Soc nat de chir 1926 lu, 3 8

Melanoma E L GILCREEST Surg Clin N Am
1926, vi, 543

Precancerous states J H Sequiera G L Cheatle W S HANDLES, Z Cope and E H Shaw Proc Roy Soc Med Lond 1926 ux, Sect Surg 1 [145]
The chemical diagnosis of malignant tumors H J

Fuchs Kim Wchnschr, 19 5 1v 2350 Carcinoma diagnosis in the blood seruro with particular

reference to examination by Wigand's method O BOTT Muenchen med Wichinschr 1925 1881 1959 Some notes on cancer W Meyer Med I & Rec

19 6 cvxiii 488
Some notes on cancer III On cancer proper IV On cell division growth and growth in cancer W MILYER

Am J M Sc 1926 clxxi 535 543 Cancer of the skin J J MORTON Arch Surg 1026

VII 055
Cancer in Massochusetts J H Nichols F W
Goodhiue, M E Chambion C H Bidelow and H L
Lombard Boston M & S J 19 6 exch 388 [146]
Theetiology of cancer I Levin N York State I M

The causal parasites of cancer J J Clarke Med J

& Rec 1936 cxviii 415 Cellular hybrid formation and the new problems of can cer F D Erchia Zentralbl f Gynael, 1925 thix 2234 On a method of cancer research H GILPORD Lancet

1926 cer 858

Heterologous cancer grafts the growth of mouse can

cer in rats J GHEORGHIU J Path & Bactenol 1926
vix 171
Recent advances in the treatment of cancer D H

Jones J Ophth, Otol & Laryngol, 1926 xxx, 146
The palliative treatment of inoperable cancer J k
NARAT Med J & Rec. 1926 cxxii 491

Experiences with introcid in the palliative treatment of inoperable carcinomata B Cohn Deutsche med Wchnschr 1925, li 1984

Recession of malignant tumors following palliative measures I Erics Zentralbi f Chir 19.5 hi 2877 The contact of the surgeon with the problem of cancer G W Critic J Michigan State M Ass 1926 tx 124

Observations on the etiology of tumors as evidenced by experiments with a chicken sarcoma J B MURPHY J Am M Ass 1926 LXXVI 1 70

A case of sarcomatosis of the skin J K NARAT Boston

M & S J 1926 CYCIV 664

Spindle cell sarcoma of the soft tissues of the ankle I. L. Grickeest Surg Clin N Am 1926 vi 539
Gangrene in an infant 7 days old recovery W R
GROVE Brit M J, 1926 1, 738

#### General Bacterial Protozoan and Parasitic Infections

Focal sepsis in disease G.R. MUPEAN. H. TILLEY F. W. Broderick F. G. Thonson and others. Proc. Roy. Soc. Med. Lond. 1926. vix Roy. Soc. Med. r. The virulence test of streptococci. R. TATELAMA Monatssch. f. Geburtsh. u. Gynack. 1925. IXX. 46

The question of traumatic or surgical scarlet fever L

JURINAC Med Klin 1925 XXI, 1307
The pathogenesis of scrofula N Office Mitt d med

Ges zu Osaka 19 5 xxiv

The significance of the roentgen picture in the diagnosis

The significance of the reentgen picture in the diagnosis of the therapeutic indications and the evaluation of the results in surgical tuberculosis T NAEGELY Strahlen therapie 1926 XX 342

The prognostic value of the urochromogen reaction in surgical tuberculosis W Grossmann Zischr f Tuberk 19 5 xlin 475

Non-operative treatment of surgical tuberculosis
STAUS OETIKER Klin Wehnschr 1925 iv 225,
Calcium iontophoresis in surgical tuberculosis A

SCHAMM Arch f klin Chir, 1925 CEXXVII, 652
A new attempt at bacteriotherapy of surgical tuberculosis by means of the paratuberculin of Johne's bacillus

L Bazy Bull et mem Soc nat de chir 1926 lii 34
Postmortem tuberculous lesions T R R Topp
Edinburgh M J 1926 vexili 219

Three cases of gas bacillus infection A A Herold New Orleans M & S J 1926 lxxviii 661 Concerning mycoses P Moure Bull et m/m Soc

nat de chir 1926 hi 232

The mechanism of daughter cyst formation in hydatid disease H R Dew Med J Australia 19 6 1 451

#### Ductless Glands

The genital glands and the hypophysis Schenk Arch f Gynael 1925 cxxv 575 586

Investigations of the changes in internal secretion after extingation of the uterus operative costration and roent gen castration and in the normal climacterium H KUESINER Monatsecht f Geburtsh u Gynack 1025 füx 284 [147]

Endocrine therapy a discussion of some of its problems

H J ACHARD Am Med 19 6 XXXII 242

Endocrane therapy A GOODALL J LASON, and D M
Lyon Edinburgh M J 1926 xxxiii Med Chir Soc
Edinburgh 61

Roentgentherup; and organotheraps of endocrine di turbance J Borak Strahlentherapie 1923 XX 232
Cases illustrating the effects of glandular treatment Il CARDINER HILL Proc Roy Soc Med Lond 1926 my Chn Sect 23

## Surgical Pathology and Diagnosis

Histological changes in the subrutaneou connecting tis ue after subcutaneous injections of paraffin L VAV

GELDEREN Arch I path Anst 1915 cclvs 805 Experimental tudies on the biology of surviving tissue particularly careinoma tissue C Louros Muenchen med Wehnschr 19 6 ixun 53
Further chenical experiences with the interferometric

serum diagnos s G Rittershaus Zentralbi i Gynask 1925 tilt 2819 A entique of neuer methods in the hi tochemical recog

pition of lipoid abstances H | ARVET Zentralbi I

allg Path u path Annt 1925 TXXVI 143

#### Experimental Surgery

The production of cerebral and visceral hamorrhage in the young rat I A MANVILLE J L BRODIE and C U Moore Northwest Med 1926 xxv 205

The growth energy of implanted epithehum H hiver ZAHN Arch f khn Chir 1925 CXXXVIII 534

Organ transplantation and its practical value in domes tic animals 5 Vorovoer 19 5 Leipzig I linkhardt

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# International Abstract of Surgery

Supplementary to

Surgery, Gynecology and Obstetrics

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#### EDITOR'S COMMENT

THE tremendous impetus that has been given to the study of the physiology and pathology of the liver and bile passages as a result of the introduction of Graham and Cole smethod of gall bladder visualization is reflected in a constantly increasing number of papers on this subject emanating from surgical clinics in widely separated centers. Rubenstone and Tutt's discussion of the comparative value of functional liver tests (p. 200) and Graham Lyon, Zink, and George's symposium on the diagnosis of gall bladder disease (p. 210) are some of the recent contributions that are helping to make the diagnosis of disease of the liver and bile passages more certain and accurate

Some of the difficulties of secondary operations on the gall bladder and the bile passages are discussed in Payr's interesting paper on exposure of the common duct in operations for extreme of stone after cholecy steetomy (p. 212). The use of a catheter and syringe is again recommended as a method of disengaging stones high

up or low down in the ducts

The possibility of anastomosing a biliary fistula with the stomath or duodenum as emphasized by Babcock (p 211) and the ease with which deep hæmorrhage may be controlled by upward pressure on the hepatoduodenal ligament with the index inger in the foramen of Winslow as has been suggested by Gibson and other sur geons should be remembered in connection with Payr's suggestions for overcoming the technical difficulties of the operation. Gutterrez's account of the implantation of a pancreatic fistula into the stomach (p 214) indicates the possibility of successfully treating pancreatic fistulae as well as biliary fistulae by this method.

Fuch's studies of the inner topography of the kidney (p z 3) emphasizes the fact that just before they enter the parenchyma large blood vessels from the ventral group pass in the inter stices between the calyces to join the doral group, and that when the mission suggested by Zondek is made to deliver a large pelvic stone these large vessels may be divided. Bouchard and Laquiers e examination of a patient nueteen years after ureterorrhaphy emphasizes the importance of the pensialitie action of the ureter in the normal exacuation of the renal pelvis. In this case, although the ureter had been sutured without resulting stricture formation, the pelvis and upper ureter were dilated and filled with turbid stagiant urine.

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Carlson and Bunnell's experimental studies on the value of pneumothorax is the prevention of pleural effusions after thoracotomy (p 198) and Naerva's study of the methods of tendon re generation and repair (p 229) suggest some important and practical clinical applications

Voltz review of the results of irradiation treatment of carcinoma of the cervix in the Munich Gyaecological Clinic from 1912 to 1919 (p. 217). Davis description of methods of treating deep X-ray burns (p. 233) and Albae's interesting account of a difficult and eventually successfully treated case of fracture of the femur complicated by osteomyelitis (p. 230) are a few of many abstracts worthy of special note in this month is sue of the Abstracts.

# INTERNATIONAL ABSTRACT OF SURGERY

SEPTEMBER, 1926

## COLLECTIVE REVIEW

#### THE PATHOGENESIS OF THE GASTRIC-DUODENAL ULCER1

By GEORGE HALPERIN, M D, CHICAGO

THE so called peptic ulcer of the stomach and duodenum is a common malady in man. Its cause, however, is as much a mystery today as it was when Claude Bernard first demonstrated that the leg of a living frog will be digested if placed through a fistula in a dog's stomach. Why does not the gastric mucosa digest itself? Dragsted and Vaughn have shown that other living tissues will resist the action of gastric juices. John Hunter believed that a certain vital principle inherent in the parts protected them from digestion.

Since bealthy cells will successfully withstand the action of gastric juice, we must presuppose that the vitality of the cells must be lowered before the gastric juice can evert its proteoly tic action upon them. Virchow postulated that all chronic gastric ulcers originate from an erosion. Aschoff defines an erosion as a superficial loss of substance of the mucous membrane resulting from the disin tegration of a circumscribed mucosal necrosis or from a hazinching direction with secondary digestion. The loss of tissue must be limited to the mucosa and the uppermost layers of the submucosa. The muscularis proper is not in

Thus the ulcer problem can with advantage be approached from two sides, the origin of the erosion and the development of a chronic ulcer from the erosion. The erosion is the pivotal point from which we must start and to which we must return in all our speculations regarding the origin of the chronic gastric or duodenal ulcer. That the origin of the erosion has not been

solved is attested to by the existence of several widely divergent theories. The following will be here discussed (i) The circulatory theory, (2) the neurogenic theory, (3) the infectious theory, (4) the inflammatory theory, and (5) the mechanical functional theory.

#### I THE CIRCULATORY THEORY

The circulatory theory was advanced by Virchow and Hauser in 1853 Virchow taught that ulcers are produced by an infarction of a terminal blood vessel with consequent necrosis, the starting point for the digestive action of the gastine juice. This view was universally accepted. In connection with this conception the role played by the excessive gastric secretion assumed a special importance. Among the older climicians, Riegel considered hypersecretion the decisive factor. This view was later shared by Boas, Sippy, and you Bergmann, in fact by the majority of climicians.

It was pointed out that chronic ulcers occur only in that part of the gastro intestinal tract which is exposed to the action of the bydrochloric acid, viz., the stomach and the first two inches of the duodenum. They do not occur in the cesophagus and are rare in the cardia. When the jejunum is exposed to the action of the gastric juce, as following a gastro-enterostomy for ulcer, the well known marginal ulcer frequently deselops. On the other hand, no such type of ulcer has ever been observed when the gastroenterostomy was performed for gastric cancer.

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ulcer patients are "vagotonics" or "sympatheticotonics" Attractive as this hypothesis may seem, it is unsupported by convincing clinical data on the one hand nor by experimental data on the other

#### III THE INFECTIOUS THEORY 1 STREPTOCOCCI 2 OIDIUM ALBICANS

1 Streptococci Rosenow claims to have been able repeatedly to produce ulcerations in the stomachs of experimental animals by inoculating with streptococci cultivated from foci of ulcer patients and from the ulcers themselves Such foci were usually abscessed teeth or tonsils. The streptococci in these cases seem to possess a characteristic selective affinity for the mucous membrane of the stomach or the duodenum Streptococci were again recovered from the experimental lesions and again reproduced ulcer ations in stomachs upon re injection. The ulcers thus produced resembled those in man in location. in gross and microscopic appearance, and in the fact that they tended to become chronic, to per forate, and to cause severe or fatal hæmorrhage According to Rosenow, the necessary require ments have been fulfilled to warrant the con clusion that the usual ulcer of the stomach and duodenum in man is primarily due to a localized hematogenous infection of the mucous membrane by streptococci

Mann and Williamson of the same clinic (Mayo) have developed a rather ingenious method for producing chronic ulcers in dogs. They transplant the duodenum into the ileum and anasto mose the jejunum into the pylorus Rosenow did not accept their physiological explanation of ulcer causation He was able to find a strep tococcus in these ulcers as well. He again dem onstrated their selective localizing power on intravenous injection, their presence in the foci of infection of the experimental animals, and their ability to produce poison in vitro More than that, he was able to immunize some of the animals against ulcer development

In a series of dogs, Ivy failed to produce ul cers by injecting streptococci of proven virulence into two or three branches of the gastro epiploic

artery Rosenow's conclusions await confirmation by other workers

2 Oidium albicans Very recently (1921), Askanazy claims to have found ordium albicans, long known as a common saprophyte of the hu man mouth in the craters of ulcers in resected stomachs He succeeded in developing ulcers in animals by inoculating into injured mucosa

ground up tissue taken from the craters of human ulcers This work was negatived by the findings of other workers who discovered these organisms chiefly in the periphery of ulcers and not in the necrotic zone, and were not able to reproduce the lesions The organism is therefore regarded as an accidental saprophytic contami nation of no etiological importance

#### IV THE INFLAMMATORY THEORY

So far, attempts to solve the ulcer problem have brought out the fact that healthy mucosa will resist digestion Therefore, a loss of cell vitality must be assumed to occur before the development of an ulcer It was necessary to determine the earliest damage to the mucosa Trauma mechanical, thermal, or chemical, sug gested itself as the possible cause Experimental attempts in this direction resulted in failure since. as has been previously mentioned, no one succeeded in producing a chronic ulcer experimen

It was suggested also that the initial damage might be brought about by circulatory dis turbances in the gastric or duodenal vessels Pathological conditions of the vessels themselves, such as stasis, thrombosis, embolism, or sclerosis, were considered. It was borne in mind also that circulatory disturbances might be brought about indirectly by neurogenic influences, such as angiospasms or by spastic contraction of the gastric musculature resulting in compression of the gastric vessels Any of these disturbances might lead to the formation of hæmorrhagic infarcts or areas of anæmic necrosis, a starting point for digestion by the active gastric juice

Experimental ligation of blood vessels pro duced erosions and ulcerations, but these dis played the same tendency to heal rapidly as experimental ulcers caused by direct injury to the Such experiments therefore did not throw any light upon the origin of chronic peptic ulcer in man

The recent increase in stomach resections for gastric and duodenal ulcers furni, hed an abundant and valuable material for histological studies So far, reports have been published by relatively few workers, chief of whom are Moscowicz, Konjetzny, Orator, Kalima, Lehman, and Puhl These studies assume a particular significance because of the striking uniformity in the findings of the various investigators and the number of stomachs examined, which is well up in the thousands They point out in the first place the unreliability of postmortem material as contrasted with warm fresh material obtained by

These studies have resulted in an resections

entirely different viewpoint

It was found that in all cases of gastric or duodenal ulcer there existed a gastritis or a duodenitis The inflammation was most marked in the antrum the fundus portion exhibiting very little or no inflammatory change. The duodenal mucosa showed an inflammatory change in ca es of duodenal ulceration, and not infrequently also in cases of gastric ulcer. In a very considerable percentage of cases the areas of gastnts con tamed multiple small oval round, and linear erosions the largest of which could be recognized macroscopically as superficial erosions. In some of the preparations such erosions covered by a fibrinous deposit were unusually numerous Gross inspection of these specimens gave the impression that the lesions represented various stages of development of the same process Specimens were observed which showed no frank ulcer but just the picture de cribed

Konjetany found microscopically in cases of gastric or duodenal ulcer a gastritis or duodenitis in all stages of development. Closer histological study revealed their unmistakably inflammatory character The histological picture was so typical as to be identical in dozens of preparations There was to be observed an infiltration of the interstitial tissue with polymorphonuclear leuco cytes The epithelium of the glands showed here and there degenerative changes such as fatty infiltration or desquamation and loss of epi thebum in places where the epithelial lining was seen to be broken there were noted ac cumulations of polynuclear leucocytes in a mesh work of fibrinous exudate. These histopathological units differed from those of a typical ulcer in extent only The findings described were con fined to the antrum and the duodenal bulb

Lonjetzny particularly calls attention to the fact that most painstaking studies of the blood vessels in these areas failed to reveal any change in their walls neither did he observe any evidence of hæmorrhage such as hæmosiderin deposits He had never noted animuc necrosis or himor rhame infarction or the so-called harmorrhagic erosions so frequently seen in the fundal portion at autopsy. In view of his findings, the theory of a nutritional disturbance brought about through direct or reflex circulatory disturbances and cau ing anæmic necrosis or hæmorrhagic in farction in otherwise normal gastric mucosa as a starting point for peptic digestion appears to him utterly untenable On the other hand inflam matory changes in the mucosa without any evidence of peptic digestion were observed with

great regularity The periodicity of the clinical symptoms may find an explanation in the tend ency of these erosions to heal

The conclusion was drawn that the development of gastric or duodenal ulcer depends upon a more or less acute inflammatory process of the mucosa, as the result of which the gastric ruice can exert its proteolytic action upon the damaged area Because of functional motor activity the resulting superficial defects or erosions of the mu cous membrane can develop into chronic ulcers

The occurrence of a local gastritis in the vicinity of an ulcer was well recognized but was always regarded as secondary to the ulcer The idea that it may be the cause rather than the effect was first concerved by Cruveilhier and later emphasized by Mathieu Paul Cohnheim con sidered 'acid gastritis" the first step in the development of a gastric or duodenal ulcer Nauwerch in 1805 expressed the belief that the gastritis might be the primary condition and the cause of an ulcer. He comed for it the compre hensive term gastritis chronica ulcerosa "

If it be true that the erosions found in the areas of inflammation are the starting points of ulcer formation stremains only to follow or rather to explain their conversion into chronic ulcers. This phase of the problem has been elucidated by Aschoff and his school In his anatomical mechanical or motor functional theory Aschoff endeavors to explain the relation of mucosal erosions to chronic ulcer

#### V MECHANICAL OR MOTOR PUNCTIONAL THEORY

Essential to the understanding of the me chanical or motor functional theory is Aschoff's conception of the function of the so called ' Magenstrasse -the gastne pathway or gastne channel, and of the 1sthmus portion of the stomach The name 'Magenstrasse' was applied by Waldeyer in 1908 to a characteristic arrange ment of the folds of gastric mucosa along the lesser curvature

The fact that practically all typical gastric ulcers occur in the area of this gastric channel suggested that for some reason the magenstrasse

is particularly vulnerable

To demonstrate the existence of the gastric channel Bauer advises fixing the stomach with formalin by the intravascular route not later than three or four hours after death. Such a stomach still retains its tonus, but is no longer capable of contracting with consequent change of the mucosal topography When it is opened along the greater curvature, a groove is found in

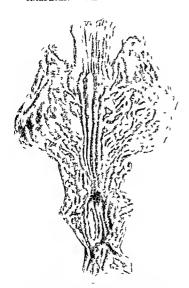


Fig. 1 The stomach of an adult removed two and one half hours after death. The magenstrasse very prominent Note the difference between the mucus folds of the corpus and those of the pylorus (after K. H. Bauer).

the lesser curvature area. This groove, which begins at the cardia and runs toward the pylorus, is interrupted at the incisura angularis. It is delineated by two or three wall like longitudinal folds. The base of the groove shows both smooth mucosa and lower ridges. These parallel folds run from the cardia as prolongations of the longitudinal folds of the ecsophagus, down to the pylorus without exhibiting any communicating transverse folds. They are not demonstrable in greatly distended stomachs. When Bauer introduced 25 per cent sulphuric acid into the stomach of a partly anasthetized dog through a stomach tube, the escharotic effect of the acid was confined to the magenstrasse.

The fold system of the gastric mucosa is of course due to its redundancy. The tone and the contractions of the gastric musculature throw the

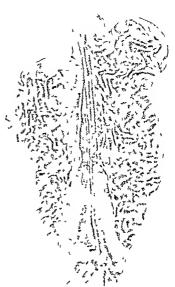


Fig 2 Human stomach removed one and one half hours after death fixed for twenty four hours, and then opened (after L. H. Bauer)

redundant mucosa into folds. The topography of the gastric mucosa is therefore the anatomical expression of the functional activity of the gastric musculature. What determines the peculiar arrangement of the gastric pathway? The answer must he found in a study of its muscular structure. As is known, the stomach, unlike the rest of the gastro intestinal tract, possesses three muscular layers, a longitudinal, a circular, and an oblique layer. Bauer has demonstrated that the special anatomical character of the oblique fibers in addition to the longitudinal and circular fibers.

Contraction of the circular fibers throws the mucosa into longitudinal folds and narrows the stomach throughout, but it is the presence of ohlique fibers that explains the persistence of the



I resions of the gastric pathway (Alter Stroh mever I

longitudinal folds of the magenstrasse synergistic action of the circular with the oblique fibers forming horseshoe like interfacing bun dies explains why as shown roentgenologically food will be held at the cardia for a considerable time although this area possesses no sphincter The longitudinal folds of the gastric channel cease at the incisura because the oblique fibers cease at that point

The gastric channel therefore differs from the rest of the stomach in that it has a characteristic musculature By the contraction of its fibers it can form a lumen of its own distinct from that of the rest of the stomach Bauer concludes that the structure and the function of the magen strasse suggest that it is the phylogenetic rudiment of the gullet of ruminating animals. The human stomach represents the welding of two organs The greater vulnerability of the magenstrasse is explainable on the ground that it is not well adapted to be a part of the digesting stomach, being in reality a survival of the original gullet The pathogenesis of the magenstrasse therefore falls in a class with that of the appendix and the gall bladder. In other words it shares together with the latter structures the disposition of all rudimentary organs

Aschoff points out that the blood supply of the magenstrasse is not as rich as that of the fundus portion The fundus is supplied by the branches of the right and left gastro epiplote arteries and by the collateral branches from the gastric artery The gastric channel is supplied by the recurrent branches of the gastric or pylonic arteries only

Ligation experiments performed by Vano on rabbits (unpublished, quoted by Aschoff) dem onstrated the difference Ligation in the region of the gastro-epiploic arteries had no recognizable effect upon the fundal mucosa, whereas ligation in the area of the gastric or pylonic artery led to localized nutritional disturbances which were demonstrated by the subsequent intravenous in jection of dyes. The mucous membrane areas belonging to the ligated vessels remained more or less colorless Aschoff thinks that in man also, arterial blocking must play a particular rôle in the origin of these changes in the gastric channel Moreover, he calls attention to the fact that the branches of the gastric artery have a segmental arrangement in the gastric wall and the areas between these may be particularly affected by the frequent and powerful contractions of the magenstrasse

It is interesting to examine Aschoff's views regarding the origin of the crosion itself. He in sists upon differentiating between hamorrhagic erosions of the fundus and erosions of the gastric channel These lesions owe their origin to entirely different conditions, but in neither case do infectious toxic infectious or mechanical factors play a prominent part. He sees in circulatory disturbances the probable cause of both Fundus erosions are caused by venous stasis and the spasmodic movement of vomiting Erosions of the magenstrasse are probably the result of the peculiar spastic condition of the channel itself or of arterial blocking. In view of Konjetzny's histological studies embolic blocking can be ruled out. Atherosclerotic changes are more frequent but they are also unusual since these erosions and ulcers develop in the young and the middle aged. It is possible that spastic contractions of the vessels themselves may be responsible. While experimental evidence is lacking Aschoff is inclined to believe that such contractions play an important part in the origin of erosions of the magenstrasse

The 1sthmus is to be looked upon not as a special anatomical structure, but as a functional one It was first described by Forsell as the narrow pass Aschoff frequently observed it in examining the stomachs of recently killed soldiers during the late war. It represents a tonic contraction of a part of the stomach. On a mixed the isthmus takes on the shape of a funnel through which the fluid contents rapidly digested in the corpus are transported to the vestibule

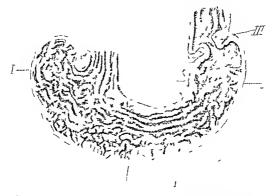


Fig. 4 I Limit between the forms and the corpus II Limit between the infundibu lum and pylone canal III Limit between the pylone canal and duodenum 1 Isthmus (After Aschoff )

and from there are evacuated by the contraction of the pyloric canal

The gastric channel extends from the cardia to the beginning of the pyloric canal The impression is given that the gastric channel and the pyloric canal should be regarded as one functional unit The separation of the magenstrasse from the rest of the stomach can be well recognized even on transverse section throughout a contracted stom ach It can then be seen that the channel, now better called the groove, is limited by the four familiar folds, while the folds of the fundus he irregularly, one against the other One gains the impression that the contracted, i.e., more or less empty stomach drains the juices from the fundus into the gastric groove so that they may flow toward the pylorus To this conception the ob jection has been raised that no such gradual opening out of the stomach from the gastric groove is to be seen in roentgenograms. Very re cently, however, Orator has been able to show just such opening pictures in his roentgenological studies at the Vienna Surgical Chinic With the rapid introduction of an opaque meal, the fold system opens up very quickly so that these differences are not recognizable

It is now quite evident that the fate of an erosion in the magenstrasse will be quite different from that in the fundus In the latter one finds the greatest mobility of the fold system, in the former taut longitudinal folds The fundus dis charges gastric juice, while the magenstrasse receives it and acts as a sort of a drainage tube Losses of substance in the gastric channel con tinue to gape, and they come in contact with the gastric juices much longer and are injured mechanically by the peristaltic movements more than erosions in the fundal portion importance may be the fact that fundal mucosa secretes a thin mucus which is poured out over the wound surface for protection This mucous formation has not been observed in the region of the magenstrasse

To sum up, the particular predilection of the magenstrasse for the development of chronic ulcers is attributed to the following facts

r As a rudimentary structure the magen strasse is not well adapted to be a part of the digesting stomach

2 Its blood supply is comparatively poor

3 Because of its special physiological function as the gastric pathway, it is subjected to frequent and powerful muscle spasms

The peculiar anatomical arrangement of its folds makes it difficult for a mucosil erosion

5 The mucous membrane of this area does not secrete a protective mucin

The last word upon the subject of the pathogenesis of the gastric duodenal ulcer has not vet been spoken. Much new knowledge has been gained from recent histological studies of resected stomachs These studies have given us a new viewpoint namely, the inflammatory theory The work of Aschoff and his collaborators has thrown a flood of light on the subject of the physiology of the stomach. New and original conceptions regarding the function of the gastric channel and the isthmus have opened up new vistas. We seem to be on the threshold of a solution of this difficult and important problem

#### REFERENCES

- ASCHOPP L. Lectures on Pathology (delivered in the United States 2024) 1924 New York Hoeber BAUER I II Leber das Wesen der Magenstrasse
- Arch f kin Chir 1923 CXTIV 565
  3 PEF HANY G VON Berl klin Wchnische, 1918 lv
- 4 Idem Uton duodent Nitt a d Grenzgeb d Med u Chr 1923 Supplift to 20 5 Boxs T Diagnostik und Therap e der Magenkrank
- heiten 1923 I eipzu.
  6 DRAFSFIPT L R and VALFER A M Gastric ulcer studies Arth Sur, 1924 101 791
- GBUBER G B line pathologische Anatomie des Ulcus duodent Mitt a d (renzgeb d Med u Chir
- 1923 Supplisht 1v, t 8 Happy R I and Bostav P T Focal infection in pepticules I Am MI Ass 1925 lacate 409

- p Harr C Mit a d Grenageb d Med u Chie, 1921 V 291
- so Huasz, A F The pathogenesis of gastra, and duodenal ulcer Guy's Hosp Rep Lond 1924,
- iriv 411
  IV A C The physiology of the stomach studies on gastric ulcur Arch Int Med, 1920 zv 6
  12 Komprezev G E Entzuendische Genese des Magen
- Duodenalgeschwuers Arch f Verdauungskr , 1925 December
- 13 FORCAYN MI and JAWORSKI Arch f kim, Med 1801
- 14 LEHMAN T C Muenchen med Wchnschr 1925 IS LOPER W Surgery of the stomach from the bacterio logical standpoint Arch f klin Chir 29 4
- exxxiii, 569 16 Moscowicz, L. Zur Histologie des Ulcu bereiten
- Magens Arch f klin. Chir 1922, caxu 17 Nauwerck Muen hen med Wchaschr 189, xlit, Nos 38 and 39
- 18 ORATOR, V Ueber die funktionelle B deutung der Mager trasse und die cardianaben Geschwiere Mitt a d Grenzgeh d Med u Chir tort xxxvi
- 10 Idem Beitraege zur Magenpathologie Arch f kl n. Chir 1925 CURIN 663
- 20 Rogs LE R Das runde Geschwuer des Magens und des Zweiffin ordarms als zweite krankbeit. Mitt a d Grenzgeb d Med u Chir 1912 txv.
- 21 Rosevow E C Causation of gastric and duodenal ulcer by streptocords I Infect Di 1916 xiv 333
  22 Idem The specificity of the streptococcus of ga tro
- duodenal ulcer and certain factors determining its focidization. J. Infect. Dis. 1923. xxxii. 243.
  23. Westphal K. and Karsein G. Das neurotische Ul.
  - cus duodens Mitt a d Grenzgeb d Med u Chir 1913 xxvi 391

# ABSTRACTS OF CURRENT LITERATURE

## SURGERY OF THE HEAD AND NECK

#### HEAD

Ivy R II, and Curtis, L Fractures of the Mandl bie An Analysis of 100 Cases Denial Cosmos, 1926 lxviii 439

The roo cases of fracture of the mandahle reviewed by the author did not include fractures resulting from bon's infection or new growths. Ninety per cent of the patients were males, and with one exception all were over 18 years of age. All of the fractures were due to force. Sixty eight per cent were single 31 per cent were double, and one was triple. In ten cases no fixation was necessary. Seventy nine (88 per cent) were treated by winng the upper and lower teeth together. The number of fixations by several different methods the time het ween the injury and the fixation and the time of maintenance of the fixation are given in a table in the original article.

The authors conclude that fractures of the man dulle demand the most accurate reduction and approximation of the fragments based on proper occlusion of the teeth, and that in 90 per cent of the cases of any type of fracture of the mandalle the simplest and most effective method of fixation is intermacullar; wiring of the teeth

EMIL C ROBITSHEE, M D

#### EYE

Weeks J E Tuberculosis of the Eye Am J Ophth 1926 3 s ix 243

The various manifestations of tuherculosis in different parts of the eychall and its adnexa are described hinely. The different tuherculins commonly employed are compared and their use in diagnosis is discussed. The author comments also upon tuherculin treatment and its results.

THOMAS D ALLEN M D

Verhoeff, F H A Case of Metastatic Intra Ocular Mycosis Arch Ophth, 1926 by 225

Verhoeff reports a case of metastatic intra ocular infection with organisms which formed granules and clubs resembling those found in actinomycosis. The organisms differed from actinomyces in that the filaments which composed the granules were more delicate, unbranched, and grain negative. They were not acid fast

The eye was enucleated, hut the patient had fever and enlargement of the liver and there were evidences of endocardits Potassium iodide was administered, hut the condition continued and

death occurred five months after the onset of the first symptoms

It is suggested that similar cases without ocular involvement may sometimes escape recognition

SAMUEL A DURR, M D

Lancaster W B The Fusion Faculty and Some of its Anomalies Am J Ophth , 1926 3 s 1x, 247

Lancaster hriefly reviews the development of the fusion faculty in animals. In most lower animals the fusion faculty is little needed or developed. In the carnivora and animals that have in trees accurate judgment of distance is important. The eyes therefore turn forward so that the fields of vision overlap and hinocular fusion develops. The mechan is mecessary to secure hinocular vision includes fihers connecting the eye and various visual centers and the motor apparatus.

Points not on the horopter impressing points of the retina not identical give the sense of depth Different lights and colors falling on corresponding points of the two eyes lead to rivalry of the two cetinal fields and diplopa. Suppression of one retinal image is learned when it serves to meet the visual needs THOMAS DALEN, M D

Suker G F and Cushman, B An Improved Technique for Iridectomy for Glaucoma Am J Ophth 1926 3 s 1x 268

In indectomy as performed by the authors a curvilinear conjunctival incision is made about half way between the limbus and the insertion of the superior rectus with its convexity toward the cornea. The flap is then dissected free from the limbus of which from 6 to 8 mm is exposed, and the dissection continued slightly hey ond the limbus without splitting the cornea. A cataract linfe is then introduced vertically is or 2 mm above the limbus at either end of the exposed sclera and thrust cm into the antenor chamber, just antenor to the inside section heing then completed by an upward sawing cut to a point opposite the wound of en trance. This gives a shelving serrated incision practically, through the scleral spur

The ris is seized with a forceps drawn out gently and downward and forward toward the cornea With an ins scussors, successive small nicks are made in the ris one hlade being kept under the upper scleril edge until the opposite end of the section is reached. The ris is then drawn in the opposite and direction and severed completely.

The conjunctival flap is replaced by stroking with a spatula Sutures are rarely necessary

The advantages claimed for this method are the conjunctival flap the cicatrix away from cornea tissue a serrated scleral section favoring a filtering scar and prompt healing. The tension is reduced and remains so without the use of miotics the operation a per cent atropine may be instilled The danger of late infection is very slight. Drawing the ins downward without tearing it favors the deposit of iris pigment in the wound Trom twenty four to forty eight hours after the operation the suspensory ligament and occasionally the cibary body are visible through the coloboma. When the anterior chamber is obliterated the section may be made as in a cyclodialysis Scopolamine and mor phine are used before the operation in all cases SARCER A DEER M D

Obarrio P Lid Traction the Greatest Safeguard
Against Vitreous Loss in Cataract Operation
im J Oblib 1016 15 14 166

Decree ed inite ocular tension renders vateous loss less probable white pressure on the globe causes loss of vateous by measures the globe causes closs of vateous by measures the inite ocular tension fraction in the lost causes collapse of the contentata as definished, tension making instituentation and tension making instituentation and tension making instituentation in the particularly the use of a feast spoon or loop. The mechanical punciples and the anatomy involved are discussed. He speculum used by Obarno is similar to de Lapersoone's speculum it has blades when this vell with hitle tendency to ship and between the arms and the blades are hinges which make it possible to rotate the arms backward or forward without disturbing the relation between blades and the lids.

The assistant seize the speculum as soon as the corneal section is completed and makes traction constantly on both lids until the eye is bandaged. The operator's movements are anticipated in order that he may be given the best evocoure at all times.

In enucleations pressure is made on the hids to cause the eye to move forward

SAMUEL A DURR M D

#### EAR

Shambaugh G.E. The Development of the Nembranous Labyrinth Arch Olofornigol 1926 in 233

According to Shambaugh one of the difficulties in preparing sections for microscopic study of the internal ear is the securing of sections which will present the relationships in such a way that they can readily be understood. The labyranth of the ear of the domestic pig is particularly suitable for such preparations because in the embryo as well as in the newborn pig it can be separated with its capsule from the surrounding structures with lattle diffi ulty

from the surrounding structures with lattle diffi ulty Shambaugh describes and illustrates five prep arations as follows

First preparation (Fig. 1) This preparation was obtained from a pig 3 5 cm long. The settion is horizontal passing through the cochie; and vesti

bule and the posterior part of the capsule which contains the semicricular canals. Included in this preparation is the stapes. The cartilage forming the antenor part of the stapes is directly continuous with that of the capsule whereas the posterior border of the stapes has already separated from this capsular cartilage through the formation of connective tissue.

The relations of the lacial nerve and large blood vessels the location of important structures such as the saccule the utriel: and the macule acustice and the location of the semicircular canals in the posterior part of the preparation and of the coch tea and ductus cochlears in the anterior part are described in detail

Second preparation (Fig 2) This preparation shows a marked advance over that from the 35 cm embryo The structures forming the beginning of the perily imphatic vestibule and those which enter into the formation of Cortis organ are

scribed.

Third preparation (Fig. 1) This section again passes through the niche of the oval window in which is recognized the earliage forming the stapes attention is called to the thickening of the epithe lium in the saccule and utricle for the formation of the macule and the plane of these two end organs lying at right angles to each other. No sign of an obtilith membrane is as yet seen.

In the basal coal at the lower right hand corner of Figure 3 the absorption of the connective tissue retestium surrounding the ductus cochleans is well started. The beginning of a scala vestibuli above and oil a scala itympan below is recognized. The upper wall of the ductus cochleans goes to form the membrane of Reissner. The absorption of connective tissue for the formation of the scalt itympan is not advanced far enough to form a recognizable membrane housians.

Repeated by the preparation of the collection of

Fifth preparation (fig. 5) This section passed directly through the center of the modifious cutting the ductus cochleans in each of the two and one half coils in a manner which shows Cortis organ to best advantage that: parallel with the pillris of Cort. The cartilige of the capsule has completely changed into hone and there is a mechanism fully developed and apparently ready to receive impressions from the impulses of sound waves. It seems probable therefore that a newborn puy scapable of hearing

A R HOLLENDER MD



Shambaugh -The Development of the Membranous Labyrinth



Shambaugh -The Development of the Membranous Labyrinth

Hollender A R and Cottle M H A Clinical and Experimental Study with Some Physical Agents in Partial Deafness Preliminary Report Arch Ololaryngol , 1926, 111 338

The authors made experimental and clinical studies in an attempt to establish a hasis for the use of diathermy in the treatment of progressive un differentiated defective hearing They do not main tain that electrophysical therapy is specific or that it replaces other measures which are known to offer a favorable prognosis, but state that in a large series of cases of chronic catarrhal deafness it has been found of some value even after other measures have failed Further experience may show that it is possible thereby to arrest the symptoms of oto

sclerosis The clinical improvement obtained is dependent upon four factors (1) the nature and extent of the pathological changes, (2) the apparatus and elec trodes used, (3) the manner in which the treatment is applied, and (4) the length of time the treatment 15 continued

The treatment should be applied on the hasis of anatomical principles and continued over a long

The time that has elapsed since the author's experiments has been too short to warrant a decision as to the permanency of the improvement or cure

#### NOSE AND SINUSES

TAMES C BRASTVELL, M D

Phelps k. A Congenital Occlusion of the Cho nnce Ann Otol Rhinol & Laryngol 1026, xxxv.

Congenital occlusion of the choanæ may he memhranous or bony undateral or hilateral, com plete or incomplete and accompanied hy other congenital defects. It occurs in females twice as often as in males and is bilateral three times more frequently than undateral Undateral occlusion occurs much more commonly on the right side thao on the left The condition does not seem to

The symptoms of complete obstruction are strik iog as the infant has great difficulty in breathing and in nursing and its nasal cavities are filled with a peculiar glairy gelatinous secretion Additional findings are anosmia diminished lung expansion on the affected side, an increase in the blood pressure, incontinence of urine, dyspepsia, and dry pharyn gitis

The symptoms of unlateral obstruction are less marked The diagnosis is coofirmed by the impossibility of passing a probe through the nose, hy nasopharyngoscopic examination and by palpa tion with the finger in the nasopharynx

The recognized method of treatment consists in making an opening through the obstruction and removing it In the author's opinioo, the posterior portion of the septum should also he removed

GEORGE R. MCAULIFF. M D

Goalwin, H A Some of the Newer Methods of X-Ray Examination of the Paranasal Sinuses, the Optic Canals, the Pharynx, and the Larynx Laryngoscope, 1026, XXXVI, 235

In a rather detailed discussion of some of the newer methods of examining the paranasal sinuses. the optic canals, the pharvnx, and the larynx with the X ray, Goalwio calls attention to the fact that the rocotron examination of the paranasal sinuses is prohably the most widely used lahoratory procedure in rhinology

He contends that the widely prevalent practice of making a diagoosis of sinus conditions from one or two roentgenograms may lead to senous error even in acute cases and is absolutely unreliable in chronic cases The complete examination of the siouses requires at least seven roentgenograms, a lateral, a postero anterior a cephalodorsoventral. a caudodorsoventral, and an axial roentgenogram and one each of the right and left optic canals

Each sinus has a normal illumination which depends upon its depth as well as the deosity and thickness of its walls and those of the skull Before a decision is made with regard to the condition of a sinus the normal illumination to be expected must be estimated Such an estimate is made possible only by a full lateral and full postero anterior view

The roentgenologist should be thoroughly familiar with all of the clinical and roentgenological aspects of the disease, any deformities of the head, and needless to say, the finest details of the anatomy of the head

In roentgenography of the optic canals great precaution is necessary The size of the focal spot of the tube should be measured and the distance of the focal spot from the plate and of the canal from the plate should be noted

The size of the optic canal cannot he determined directly from the film It must he calculated

The roentgenologist's duty does not end when he makes a diagnosis He should furnish the climcian with all of the anatomical data which cao he determined from the roentgenograms as these will he of aid in the treatment A R. HOLLENDER, M D

The Diagnosis and Treatment of Dean, L W Paranasal Sinus Infections in Infants and Young Children Under Ethylene Anæsthesia Laryngoscope 1926, txxvi 257

In Dean's experience sinus disease in infants and young children which is associated with severe systemic conditions such as arthritis, chorea and nephritis has been slow to yield to treatment Little difficulty has been encountered in diagnosing chronic sinus infection, but eradication of the last trace of the sinus disease has been less simple

Irrigation of the maxillary sinuses is best accomplished under ethylene anæsthesia

The diagnosis of sinus disease in infants and young children is facilitated by ethylene anæsthesia For operations on the nose or sinuses, chloroform and oxygen are preferred because, when they are

employed the field is much less blood; and efectrically driven suction machines may be used in the

operating room with safety

Dean now uses a new feehingue in investigating the mavillar; sinuses. Instend of inserting a fong needle through the trocar that has been passed into the sinus he attaches a syringe directly to the trocar and injects sterile normal salt solution into the sinus and aspirates it through the trocar. The trocar has an intenor diameter three times that of the needle formerly used therefore larger pixes of pus and thicker pus may be aspirated. The tech injude described obviates the danger of injuring the sinus wall by a second needle which as originally used projected beyond the end of the trocar.

The material aspirated is examined macroscopically for pus and sent to the laboratory for microscopical examination and culture

A R HOLLENDER M D

## Lodge W O Observations on the Frontal Sinus Bril M J 1926 1 60

During quiet intervals in recurrent catarrhal inflammation a diagnosis is difficult as the nasal chambers appear health; transillummation is of no help and roentgenograms are negative. Hence most reliance must be pirced on the history.

The continued use of an oily spray containing methol chloretone etc may ward off an attack and during an attack, the introduction beneath the middle turbinate of cotton pleedges wet with occaine and adrenalin may give relief. Resection of the anterior portion of the middle turbinate with or without probing and dilatation of the duct vields more consistently satisfactor results.

Mucocele is less frequent in the frontal sinus than in the other sinuses. Its development is favored by closure of the outlet and the absence of progenie organisms. Surgery is the treatment indicated

Emprema is due to ascending infection from the nose resulting from frauma influenza the presence of foreign bodies or ethmoid suppuration. In this condition also surgery is indicated

Among miscellaneous affections discussed are tuberculosis of the frontal bone gummatous perios titis sarcoma and osteoma

GEORGE K MCALLIFF M D

Schreiner B F A Report on Fifty Four Cases of Malignant Neopiasms of the Antrum of Highmore 4r h Clin Cancer Research 1925 1 65

Schreiner reports on fifty four cases of tumor of the antrum of Highmore on forty one of which a bopsy was performed Thirty three of the neo plasms were classified as epithelomata three as spindle cell surcomata three as mix osarcomata and two as gaint cell surcomata The remaining thirteen which were not examined by bopsy were clinically malignant

In the period from 1914 to 1920 the treatment usually consisted in the surgical removal of as much of the tumor as possible. In one case treated in June, 1916 resection of the superior marulla was done and followed by the introduction of radium into the cavity of the antrum and the application of low voltage \(^1\) rays from the outside I his patient has been clinically well since November 1916

Since 1920 the practice has been varied. In many cases the implantation of bare tubes into the tumor mass in the antrum has been done through the mouth and in some instances directly through the hard palate which was eroded. The remaining cases have been treated by the insertion of radium seeds or radium tubes filtered through brass and 1 mm of rubber through an opening made above the alveolar process. While in all of the cases treated up to 1920 the radium application was supplemented by low voltage \ rays applied from the outside or by radium packs at a distance of 6 cm more recently high voltage \ ray treat ment divided over a period of from ten to twelve days has been used in the cases in which radium seeds have been implanted or radium tubes applied It has often been necessary to remove sequestra

weeks or months following the treatment. The results are summarized as follows

r Five patients who had an epithelioma of the antrum of Highmore have been clinically well for periods ranging from six months to nine years

2 Two patients treated for giant cell sarcoma of the antrum are clinically well eight and one half years and five years respectively after radical surgers and radiation

3 Of the three patients with spindle cell sar coma one has hid relief for a year but the two others show no improvement

others show no improvement
4 The three pitients with my rosarcoma failed to respond to treatment and died

5 When the disease has metastasized to the regional lymph nodes improvement has only been temporary A R ffollower M D

#### MOUTH

Regnud C Radium Therapy in Cancer of the Tongue and Secondary Involvement of the Lymph Nodes (Ueber die Radium therapie der Zungenkrebse und ihrer sekundaeren Druesener krankungen) Strableinherapie 1925 xtv 73

The author reports upon the results of radium irradiation in 174 cases of cancer of the tongue which were tracted at the Radium Institute of the University of Paris in the period from 1920 to 19 Achinical cure ie disappearance of the local tongue affection was obtained in eighty-one cases (a65 per cent) but in thirty nine of these death resulted from metastases in the lymph nodes. At the Can cer Congress at Strassburg in 1923 the author reported upon the thenty four cured cases when were irradiated in 1920 and 1921 Since in the meantame there has been only one death from recurrence of the cancer he considers it justifiable to regard as permanent cures the newly published to regard as permanent cures the newly published cases. Cures were obtained more frequently in

carcinoma of the anterior portion of the dorsum of the tongue than in those of the posterior portion

When the ulcer is very small the diagnosis not entire's certain and the excision of a specimen would be equal to total extirpation of the lesion the treatment should be surgical. Other cases come

within the scope of radium treatment

Following a brief description of the most effective method of treating with radium the author dis cusses the metastases in the lymph nodes Whereas for the primary tumor he prefers radium puncture with 15 mm platinum needles he states that this procedure has not stood the test in the treatment of metastases in the lymph nodes Whenever nossi ble, he does an extirpation and follows it by irradia tion as he sees in the great volume of tumors of the lymph nodes a cause for the failure of the radium theraps. Only when operation is impossible with out laving open the carcinomatous area does he give radium treatment alone

When lymph node involvement is not evident prophylactic irradiation is necessary only in cancer of the base of the tongue. In carcinoma of the postenor portion of the dorsum radium gives very poor results therefore the author prefers roentgen ray irradiation for this condition BERNSTEIN (Z)

PHARYNX

Mosher, II P Exostoses of the Cervical Vertebræ as a Cause of Difficulty in Swallowing Laryn Orton II B Anterior Di

Anterior Dislocation of the Atlas as a Cause of Inability to Snallow Solid Loods Laryngoscope 1926 TTTV1 188

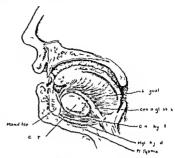
Mosner reports two cases of exostosis of the cervical vertebræ causing difficulty in snallowing In the first case, that of a woman of 74 years the I ray showed exostoses of the hodges of the fifth and sixth vertebre while in the second that of a young woman, it revealed exostoses of the bodies of the sixth and seventh vertebræ

ORTO cites the case of a child of 3 years who regurgitated or expectorated all solid foods as soon as they were given. The child had not been delivered with instruments, but it was claimed that the attendant in awaiting the arrival of the do-tor retarded the birth of its head. The child was it months old before he was able to sit up and 7 or 8 months old before he was able to hold up his head I ray examination revealed an anterior dislocation of the atlas The author reports the case becau e of the infrequency of this condition as a cause of difficulty in swallowing

GEORGE R MC VLLIFF M D

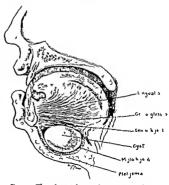
Eliason F L Inclusion Cysts of the Hyoman Jibu lar Region Thrip Ca 19 6 1 238

The author gives the embryology of inclusion tists of the hyomandibular region. The first bran



The sublingual type of cost occurring above the geniohvoid muscle

chial cleft locates cysts that appear in the aural sub maxillary sublingual and submental regions. The lining of such cysts reproduces the structure of the satoderm or entoderm. If the external groove fails to become entirely obliterated and closes only at the external surface an inclusion cyst will be the result This cost will be laterally placed and lined with epiderms If it ruptures externally or is opened a brinchial sinus (not hitula) results. These cysts have a thick tough wall composed of all the skin



The ubmental type of cyst Note the genio hyoid mu cle above and the mylohyoid muscle below

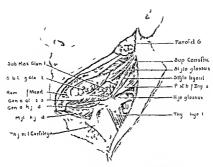


Fig. 3. The anatomical structures with which the development of the hyoman dibular cleft is concerned.

layers and contain the products of skin activity namely schaceous matter hair and desquamated epi helium

It the ventral or unner groove fails to unite entire by a pharyngeal diverticulum results. It it unites only on the pharyngeal surface a branchial inclusion cyst is formed. The hining of this type of cyst is of entodermic origin and is composed of mucous mi mbrane with a basement layer of columnar epithe him.

These cysts have a thin friable wall and contain a mucoid substance lymphoid tissue is abundant and striated mucole mucous glands and islands of cartilage may be found

Sublingual cysts or midline cysts come from the ectoderm of the first hranchial arch and he at the base of the tongue above the geniohyoid muscle or between it and the mylohyoid muscle

The cluncal symptoms of inclusion cysts dep in upon the postun of the cyst. The mass causes a sense of fullness rather than true pain. Cysts of the aural type appear just below and in front of the ear while those of the submacullary type appear as gradually increasing swellings between the angle of the jaw and the hyoid bone. The sublingual type of cyst appears just beneath the mucrous membrane of the floor of the mouth. Cysts of the submental type cause no inconvenience but are extremely un sightly.

The author reports five cases of inclusion cysts in the hyomandibular region

HOWARD A MCKNICHT M D

Beykirch A A Discussion of the Clinical Aspects and Histology of Struma and Their Relation ship to One Another on the Basis of the Struma Histologie der Struma in hern Verland, and Histologie der Struma in hern Verland, and ander knitsch bewertet an Hand des Goettinger Strumamatenia 1922 1924) Beilt z klin Chir 1925 Ctttu 16.

The author reviews the clinical syndrome and the histology of 185 case of strums. The large follicular proliferating forms of strums are very common in Goettin, en. Alost of the subjects are at the age of puberty. All of the other forms occur at a more advanced period of life. Frequently a mixed form with large and small follicles is seen.

In the choice of treatment (todane treatment or operation) the clini al symptoms particularly those of hyperthy-rodism must he taken into consideration. The clinical symptoms of proliferating struma are sometimes due to mechanical causes and at other times to functional disturbances (hyperthyrodism). At the age of puberty nodine treatment must therefore he given only with great care. Operative procedures result with certainty in a reduction in the size of the gland without functional disturbances.

The Basedow struma and nodular struma belong to a more advanced period of life. In these types hyperthyroidsm is less frequent. Everything in dicates that hyp rthyroidsm is by no means entrely dependent upon the thyroid gaid other factors are involved. All in all the herecitary gotter anlage and the con tutuon and age of the struma.

are of importance Struma is responsible for a large number of syndromes and as regards its functional manifestations should be judged only from the complete picture presented in the particular case

Aleman O Two Cases of Anterior Mediastinot omy for Struma Intrathorax Acta chirurg Scant 1926 lx 135

The author reports two cases of intrathoracic struma with well marked symptoms of compression of the mediastinal organs. In both, the extirpation of the struma by the Sauerbruch Schumacher anterior longitudinal mediastinotomy was followed by a good result

Clute H M, and Mason R L The Medical Treatment of Hyperthyroidism Ann Clin Med 1026 iv 673

While it is generally admitted that the removal of quickest method of checking the course of byper thyroidism the authors emphasize the importance of intensive medical treatment before and after thyroidectomy. The high metabolic rate is best treated with rest. As persons with evophtbalmic goiter do not adjust themselves readily to rest in bed they must be persuaded to control their cease less wasteful movements and excited conversation

Next in importance to rest is diet. It has been estimated that a man with a metabolic rate of 50+ who is doing a moderate amount of muscular work, requires 6 000 calones daily to maintain his weight. To furnish a diet of from 3 000 to 6 000 calones daily the patient should be given his favorite foods daily the patient should be given his favorite foods.

Indine is the only drug of demonstrated merit tending to reduce the basal metabolic rate in byper thyroidism. It should not be given in cases of ade noma.

A very troublesome sequela of hyperthyrodism is auncular fibrillation. In the authors chinic this condition has been found in about 35 per cent of the definitely toxic pertients. Hamilton states that paroxysmal attacks of auncular fibrillation associated with thyroid toxicity cease permanently when the toxicity is corrected. This is true only of the purely thyroid heart and not of long established cardiac conditions. ARTINEL STREPTICE, M.D.

Musser J H Exophthalmic Goiter and Tuberculosis Ann Clin Med 1926 iv 620

Primary tuberculosis of the thyroid gland is very rare after puberty, thyroid tuberculosis is secondary to pulmonary tuberculosis. Tuberculosis is more frequently mistaken for hyperthyroidism than hyperthyroidism for tuberculosis. The author has seen six cases of tuberculosis which had been treated for hyperthyroidism. Symptoms common to both conditions are a loss of weight, fatigue de blity nervoisness and diarrhea. Anorexia is usually absent in hyperthyroidism hut present in tuberculosis.

Hyperthyroidism is characterized by marked over action of the heart, a pronounced vasodilation, an increase in the metabolic rate, and a marked increase in the pulse pressure. In tuberculosis the pulse pressure is usually low and the temperature usually rises daily. In the diagnosis of tuberculosis the von Pirquet test is very valuable and the presence of crackling rales with granular breathing is suggestive.

ARTHUR L SEREFFLER, M D

Koopman, J Conjugal and Luetic Basedow s

Disease (Ueber konjugale und luetische Base
dowsche Krankheit) Wien klin Il chnischr 1925

XXXIII 1159

The occurrence of the same disease (cancer dia betes etc.) in hoth husband and wife is so seldom observed that no conclusion can be drawn from it Nevertheless the author regards the case of conjugal Basedow's disease which he reports in this article as of importance because of the rartly of the condition in both husband and wife and because it affords an insight into the pathogenesis of certain cases

Koopman defends the not new but apparently little known theory of the occurrence of a luetic Basedows disease. This theory has received most attention in the French literature. According to Leonard 30 per cent of cases of Basedow's disease are of luetic origin. It may appear very early after the syphilitic infection (three months) or very late (twenty three years). Tabes and hereditary lues may also cause it. Therefore the Wassermann test should be made in every case of Basedow's disease.

In cases of luetic origin todine has often an as tonishing effect. Luetic Basedow's disease can be quickly cured Hirsch (Z)

Brodersen N. H. Tetany Following Operations on the Thyroid Gland (Tetanic nach Operationen an der Schilddruses) Norsk Mag f Laegeridensk, 1925 lxxxvi z 93

In the period from January r 1920 to June 30 no25 647 thyroidectomics were performed at the City Hospital of Drammen. Tetany occurred in five cases. In the 30r cases in which the operation was performed for evophthalmic goiter or adenoma tous goster with hyperthyroidism tetany occurred in four (r 3 per cent), while in the 346 in which it was done for simple goster tetany occurred in one 0.3 per cent. There were no deaths

Why the tetany occurred in these cases cannot he stated with certainty. In every case in which it developed it followed a radical operation in which only a small portion of the left lobe was left behind. In a few rare cases it appears to be an unavoidable complication of the radical operation. Three of the patients whose cases are reviewed were 21. 17 and 15 years of age a fact which possibly indicates the necessity for special care in operations on young persons. The chief remedy against tetany is calcium lactate. Parathyroid tablets are not at all certain in their effect. Kontrassex (2).

Lahey F 11 The Transplantation of Parathyroids In Partial Thyroidectomy Surg Gynec & Obst 1920 vin 508

Since parathyroids are occasionally removed at operation and identified in the laboratory, they should be carefully searched for in the specimen re

moved at operation and if found transplanted The most convenient site at which to transplant them is the belly of the sternomastoid muscle. Care must be taken to see that the cavity into which they are transplanted is dry JAMES C BRASWELL M D

Simpson W M A Clinical and Pathological Study of Fifty Five Malignant Neoplasms of the Thyroid Gland Ann Clin Med 1926 iv 643

Simp on presents a report on fifty five malignant neoplasms of the thyroid gland afty of which were carcinoma and five sarcomata. The cases in which these tumors were found constituted 4 03 per cent of a surgical series of 1 200 cases of non exophthalmic

goiter No malignancy was found in purely exoph thalmic goiters Seventy two per cent of the malig nant tumors occurred in women. Sixty per cent were unsuspected before the histological examination

I very hard nodule in the thyroid of a person over 30 years of age should be viewed with suspicion especially if there is a history of relatively rapid increase in the size and hardness of a previously quescent gotter. In the advanced stages metas

tasis to the lungs and bones is common

In 30 per cent of the cases reviewed by the author the carcinoma was of the medullary type Tumors of this type grow with the greatest rapidity and frequently recur and form metastases. In 60 per cent of the cases the tumor was an adenocard noma and in 4 per cent of the scirrhous type Sar coma of the thyroid conforms in its growth char acteristics to sarcoma arising elsewhere in the body ARTHUR L SHREPPLER M D

# SURGERY OF THE NERVOUS SYSTEM

# BRAIN AND ITS COVERINGS, CRANIAL NERVES

Pauli W. E. and Von Redwitz E. Remarks on the Construction and Use of the Meyer Schlueter Sound (Bemerkungen zur Konstruktion und Verwendung der Meyer Schlueterschen Sonde) Deutsche Zische fehr 1025 CRUI 343

Pauli and von Redwitz recommend the sound devised by Meyer and Schlueter for measuring the electrical resistance of brain tissue in operations on brain tumors. According to their own experience in several cases and according to reports from America it is often of great value.

The authors have changed its construction so that the electrodes may be moved toward each other and it is possible by moving them to deter mine the extent of a tumor and to discover very small tumors. By the use of a bead piece the opera tor himself can determine the resistance of the tis sues during the performance of an operation

VOY REDWITZ (Z)

Von Sarhó A A Cured Case of Fat Embolism of the Brain Following Fracture of the Leg and Simulating Progressive Paralysis (Ein geheiter Fall von Fettembole des Gehims anch Unterschen kelbruch im Bilde der progressiven Paralyse ver laufend) Kin Wichnich 1953 in 1918

The most important sign differentiating cerebral fat embolism following fracture of a bone from other cerebral conditions is the free interval between the injury and the appearance of the cerebral symptoms. Usually signs of fat embolism of the pulmonary capillanes such as a sticking sensation in the chest shortness of breath, and cough, occur first and from several bours to several days after the fracture there is complete loss of consciousness which occurs suddenly or is preceded by a stage of sleepiness. After severe symptoms of irritation the most vanied focal symptoms may be noted

The author reports a case of fat embolism of the brain following a complicated fracture of the leg in a man 50 years of age. The symptoms corresponded to those of progressive paralysis except that the negative result of the serological and spinal fluid examinations excluded parenchy matous symbles. Undoubtedly, the frontal and parietal lobes were chefly affected by the embolism. Such an assumption explains the facial paralysis on the left side (focus on the right side in the anterior central gruph paralaxis, such as a sumption and the path side in the anterior central gruph and the summaring side of the total function of the frontal lobes the disornentation for place and time and the tendency of the patient to

play clownish tricks In the course of two months the symptoms slowly receded and a complete mental recovery resulted Lehrybecher (Z)

Davis, L The Influence of Decompression Opera tions on Experimentally Produced Papilledema 4rch Surg 1926 xii 1004

In a large senes of dogs Davis produced a most ingemous imitation cerebral tumor by introducing sterile - gr capsules of agar into various portions of the cerebrum and cerebellum through small burn holes. When a subtemporal or suboccipital decompression was done immediately before or after the introduction of the agar, the animals did not develop papilledema, and survived the operation for several weeks until they were sacrineed, whereas when decompression was not done they died within a few days.

In the case of 'tumors' of the cerebellum, the subtemporal decompression appeared to be quite as effective in preventing symptoms as the subtentional decompression. The author questions the correctness of the current opinion that supraten tornal decompression is of no value in cases of subtentional tumor.

This study indicates that decompression will alleviate choked disk in cases of tumors of the brain Davis states expressly bowever, that he does not favor a palliative decompression if it is possible to localize and attack the original lesion

TRACY J PUTNAM M D

Winkelbauer A and Brunner, H The Treatment of Traumatic Frontal Brain Abscesses (Zur Behandlung der traumatischen Stirnhirnabscesse) Arch f klin Chir 19 5 extxvii 160

Seven cases of frontal bram abscesses are reported. The abscess was correctly diagnosed in five Psychic changes are of great aid in the diagnosis. They were noted in four of the authors cases. They consisted in a tendency to play clown ish tricks, a loss of ethical sense stupor, somnolence and a decrease in the perceptive powers. In four cases the diagnosis was further supported by very severe headaches and tenderness to percussion over the frontal bone.

The temperature and cerebrospinal fluid are not very characteristic Dizziness and vomiting (a long time after the accident) occurred in only one of the authors' seven cases. The ophtbalmoscopic find mgs are of greater significance Papillacdems was found twice in five cases. In the authors' opinion the most reliable signs are the nature and site of the injury and the psychic changes.

The success of operative treatment depends upon an early diagnosis If the abscess is not recognized

the formation of pacchionian bodies. The proinferation of arachnoid takes place at weak spots in the dura particularly preformed openings such as those for the passage of the vessels It is difficult to determine the cause of this proliferation. In one of the author's cases a purulent otitis was present

As the patients were all old persons it is prob able that there were mild processes of inflammation or irritation of the meninges congestion stasis and temporary changes in spinal fluid pressure but proliferation of the arachnoid alone could not cause the pseudo cyst. The orifice through which the arachnoid passes is plugged by it and spinal fluid cannot pass through it at least not with sufficient force to distend the dura mater. However, when a vessel passes through the opening there may be enough space for the passage of spinal fluid especially when the size of the vessel is changed. The passage of spinal fluid is facilitated by obliquity of the course of the vessel In the cases reported this was marked Changes in the pressure of the spinal fluid also are of influence in the production of these

None of the cysts reported had caused any symptoms This is not surprising as such cysts grow slowly and do not cause signs of compression because they are in communication with the intra arachnoid space Even when they are completely developed they do not crowd the epidural space because there is a limit to the capacity of the dura mater for expansion. Moreover their elongated form makes them readily adaptable to the intra vertebral space AUDREY G MORGAN M D

Landelius E Experiences with Some Somal Intradural Tumors 1cta chirurg Scand 1026 lx 180

In one case of intradural neuroms affecting the posterior nerve roots and one case of intramedullary tumor the author produced root pain in the lo ality of the spontaneous pains by increasing the cranial pressure during lumbar puncture by the Ouecken stedt test viz compression of the verus in the neck

In the first case the only symptoms were root pains and the segment diagnosis was made altogether from the localization of the pains after their nature and localization had been corroborated by the Oueckenstedt test

The author suggests that this observation may prove of value in the diagnosis of spinal intradural tumors at an early stage before the development of paraplegia

#### PERIPHERAL NERVES

Felix Willy Exercises of the Phrenic Nerve in Pulmonary Affections (Die Phrenicus Ausschal tung bei Lungenerkrankungen) Erg bn d Chr u Orthop 1025 XVIII 600

This article is a review of the most important facts concerning the history anatomy and tech nique of artificial paralysis of the diaphragm. The author discusses the priority of you Goetze In 1914 Friedrich recomm nded an approach to the dome of th pleura in order to rea h deep r afferent fib rs of th n rve Kir chn r in 1920 re ommended disruption of the nerve if possible b low its cervical roots Th suggestion of Walth r Felix made at about the sam tim to approach the sub lavian vein in order to disrupt the accessory phrenic hes also within the raim of technical possibility. If the scalenus anti u mus le is followed downward it is usually possible to rea h w ll down to the vein Pulling upward on the nerve stem may move the a cessory phr mic which passe in front of the year

and thus identify it for division With full knowl dge of the so called radical phrenicotomy of von Goetze the work of Felix was completed in 1922 and contains the results of his research condu ted after 1919 on the anatomical experimental and clinical asp ets of the phrenic nerve and exeresis of this nerve. Up to 1023 von Goetze described his method as phremicotomy plus division of th subclavius On anatomical grounds th staff of the Munich clinic have been unable to recognize this pro edure as radical and have repeat e illy expressed this vi wpoint. It does not take into account the frequent variations of the phrenic on the other side of the subclavian nerve. Only since this criticism from the Munich clinic has you Goetze presented his procedure with a changed

technique (Surgical Congress of 1024) The method be uses today is truly radical since he non divides not only the subclavian nerve but also other nerve branches which he in the vicinity and follow a similar course (von Goetze s sub lavian accessory roots) All argument as to priority is groundless since methods for the complete division of the phrenic were known before either the Felix or the von Goetze method appeared It is emphasized that the operation though simple is associated with considerable danger because it is frequently per formed by poor surgeons One of Friedrich's pa tients died from air embolism in the internal jugular vein. In the Munich chinic there were two cases of air embolism with a favorable outcome Sauerbruch mentions among a total of 500 op ra tions two fatal hamorrhages due to a simple phreni cotomy Mistakes have been made repeatedly in the identification of the nerve At the Munich clinic the sympathetic was divided once with a con sequent Horner syndrome The Sauerbruch clinic has received reports of seven injuries of the vagusone caused by a skilled surgeon-an injury of the thoracicus longus nerve with partial paralysis of the serratus anticus muscle and an injury of the thoracic duct and the asonhagus

At the Muni h and Zurich clinics there have been performed to date 250 phrenicotomies and exereses In no instance has there been any hamorrhage which could be ascribed to the twisting out of the nerve Neither has the operation ever be a followed by the bursting of a lung abscess or the develop ment of a pneumothorax as reported by you Goetze Both procedures for artificial paralysis of the dia phragm—von Goetze's operation and the exercise are effective but exercise is technically more sim

According to the findings of investigations made to date the effect of the permanent paralysis of the diaphragm on the function of important abdom inal and thoracic organs is quite harmless contention of the Sauerbruch school that phreni cotomy in general cannot be admitted to have an independent importance in the compression therapy of pulmonary tuberculosis is held to be correct con trary to the opinions of von Goetz and Frisch In sixty cases treated by phrenicotomy alone at the Munich clinic the operation was followed by rapid clinical improvement, but actual healing did not occur in any instance Complete disappearance of a cavity as seen by von Goetze is very rare and should not influence the general prognosis At the Munich clinic the occasional arrest of expectoration with considerable diminution in the size of small cavities subsequent to paralysis of the diaphragm is ascribed to the mechanical displacement or

obstruction of the cavity outlet

On the basis of his experience at the Munich clinic

during the past ten years the author regards as of no importance the injuries supposed by Brauer to occur after permanent paralysis of the diaphragm in pulmonary conditions Exeresis is contra indicated, however by severe cardiac pains. Whether long continued tacby cardia which has been noted occasionally after exeresis (in Munich, two or three times in 250 cases) is to be ascribed to the twisting out of the nerve or to the bigh position of the dia phragm, is still undetermined. The author believes the latter is responsible Emphysematous rigidity of the thorax is also a contra indication. The dan ger of spreading pus into the mediastinum by pull ing the nerve out in the presence of a tuberculous empyema is not to be feared if force is avoided. In several cases of bronchiectasis treated by artificial paralysis of the diaphragm at the Munich clinic definite improvement resulted but was only tem porary GRAF (Z)

Cergely, J and Markovits S Clinical Lessons from 100 Operations on the Phrenic Nerve (Die klunischen Lehten aus 100 Phrenicus Opera tionen) Gydgids al 1925 Ixv, 922

Extress of the phrenic nerve gives the best results in cases with the indications for pneumo thorax that is cases with a free thoracic cavity a freely movable diaphragm and for-al propagating and for the most part exudative caseous pulmonary, processes. In cases of basal or bilateral disease its results are less favorable.

The curative effect of the procedure is due not only to compression but also to immobilization and the chimaton of unlateral traction. If gives very excellent results when it is carned out simul taneously with artificial pneumothorax. Perma nence of the pneumothorax s assured by it

In cases of non tuberculous processes of the lower lobe (abscess bronchiectasis), it causes only symp tomatic improvement at the most In empyema, it considerably reduces the size of the cavity

Of eighty nine cases in which exercise of the phrenic nerve was done forty eight showed a good result sixteen, symptomatic improvement nine no change and four an aggravation of the condition Twelve patients died Wikai (Z)

#### SYMPATHETIC NERVES

Mandi F The Effect of Paravertebral Injections in Angina Pectoris (Die Wirkung der paraverte bralen Injektion hei Angina pectoris) Arch f klin Chir 1925 CXXVI 495

Following a brief discussion of the syndrome of angina pectors and the various theories as to the cause of the condition the author reports sixteen cases in which be made paravertebral injections of ½ per cent novocain or ½ per cent tutoraine solutions. The injections were made from the first to the fourth dorsal vertebra or at one or two of these points and 15 c cm of the solution were injected at each point to adrenalin was added to the solution

In twelve cases good results were obtained and in six of these the effect bas been lasting. These results justify the inclusion of paravertebral injections among the therapeutic measures employed for angina pectoris. However the injections are recommended only for cases in which medical measures bave failed.

The effect of the injections depends upon the sections of the sympathetic paths the sensory supply of the heart and aorta. The author does not state whether the parasympathetic paths are also interrupted. The long continued effect of a single paravertebral injection (the injection was repeated in ooly one case). Mandl explains by the assumption that the interruption of the sensory paths produced a marked disturbance in the interplay between the sympathetic and parasympathetics. The failure of the treatment in some cases he attributes to the choice of the wrong segment for the injection or the use of a faulty technique. In conclusion he states that when care is taken the procedure is without danger. Stati. (Z)

Melzner E An Experimental Contribution on the So called Periarterial Sympathectomy (Expenmental Beitrag zur sogenannten periartenellen Sympathektomie) Arch f klin Chir 1925, cxxxv1 427

Following a priariterial sympathectom; on the renal arter; of a dog the author was unable to find in the kidne; the slightest microsropic evidence of change. The examinations covered a period of from three to seventy days following the operation. The kidney with its extremely sensitive tissues remained practically unaffected by the apparently very marked changes in the peripheral circulation caused by the periariterial sympathectom. Melaner says

How much less an effect can be expected in the extremities whose tissues have a so much grosser anatomical structure. He believes that his expeniments prove again that the innervation of the blood vessels is seemental. STAML (2)

#### MISCELLANEOUS

Polissadowa X Restoration of Innervation in Skin Transplants (Ueber die Wiederherstellung der Innervation bei Hauttransplantationen) Zen tralb! I Chir. 1975 in 2166

The author made clinical studies with regard to the restoration of innervation in twenty cases of skin transplantation. In most of them a rhino plastic operation with the use of a peduncilated flap had been done. Previous to its separation the flap retained sensibility only in the vicinity of its pedicle and immediately after its separation it tost all sensibility. The first sensations to be noted after the transplantation were those of touch in response to pin pricking. Pain was felt only after a month. Sensibility began at the pemplery of the flap adjectal to normal issue and progressed downly comper month. Sensitiveness to temperature was the last to be noted.

In addition the author made histological investigations in a large number of cases with regard to the presence of nerve elements. He found that the growth of nerves runs about parallel with the in

crease in sensibility. Even after a long time the flap had very few nerve fibers as compared with normal skin. Medullary nerve fibers were found in only one case and nerve end apparatus were not demonstrable even in the end of a vear.

VOLLHARDT (Z)

Boyd W Three Tumors Arising from Neuro blasts Arch Surg 1026 XII 1021

Three cases of tumor in children are reported to the first case the origin of the neoplasm appeared to be in the medulla of both suprarenals and there were metastases in the liver lymph glands into and cranum. The tumor was composed mainly of well differentiated cells together with small more primitive cells and hundles of neurofibrils but without resection.

In the second case there was a gangloneuroma arising in the gangla of the left abdominal sympa thetic chain and associated with metastases in the ribs and cranium and maldevelopment of the left suprarenal medulfa.

In the third case a neuro epithehoma of the retina had metastasized to the liver and other viscera

All three neoplasms may be regarded as develop mental tumors arising from neuroblasts at different stages of development. The first two spread apparently by way of the lymphatics and the third by the bloodstream. In all, the striking metastases were in the cranium. Trace J. Purkan. M.D.

# SURGERY OF THE CHEST

### TRACHEA, LUNGS, AND PLEURA

Guy, J and Elder, H C Radiographic Exploration of Broncho Pulmonary System by Means of Lipiodol Edinburgh M J 19 6 ns vexus 269

For roentgenographic exploration of the hroncho pulmonary system the authors inject lipicod by the intercricothyroid route following preliminary amesthetization of the parts. They then guide the lipicod into the portion of lung to be studied by having the patient assume the most favorable position therefor

Fluoroscopy is used to ascertain whether this has been accomplished, and roentgenograms are made as quickly after the injection as possible. Such complications as have occurred have been of little consequence. In the authors' opinion the results justify wide application of the method in the diag nosis of bronchopulmonary affections.

ADOLPH HAPTUNG, M D

Clerf L H Foreign Bodies in the Tracheobron chial Tree A Report of Cases in Which Bron choscopy Was Not Done Laryngoscope 1926

The author discusses the probability of the spon taneous expulsion of a foreign body from the tracheobronchial tree. He states that before the use of the X ray statistics which showed the incidence of such expulsion to he 46 per cent were misleading because expulsion was then one of the chief indications of a foreign body Jackson estimates the incidence of spontaneous expulsion as between 2 and 3 per cent

Clerf advises against inversion of the patient hecause of the danger that the foreign body may become lodged in the glottis and produce asphysia

He mentions the many bends in the hronchial tree its entrance narrowed by the glottic chink tracheal reflevion tending to close the glottis and the force of gravity and anatomical and physiological factors working against spontaneous expulsion

The probability of spontaneous expulsion is in fluenced also by the nature of the foreign body Theoretically, sharp elongated bodies will never be coughed up. They usually he point uppermost and offer little surface to the expiratory blist Heavy metallic objects especially if round tend to seek, lower portions of the tree and to block the bronchus Penpheral to them are is absorbed and a negative pressure is produced. Protunally, a ring of inflammatory tissue holds them down. Expulsion of vegetable substances is rare probably because of the swelling of the follotis caused by their ten.

dency to lodge in the subglottic space and because of the large quantity of secretion caused by the septic bronchits and laryngeal spasm. The longer a foreign body has been in place the less the probability that it will be coughed up

Instances of the spontaneous expulsion of practically every type of foreign body are cited, but Clerf emphasizes the fact that these are exceptions and advises strongly against waiting for such expulsion. In conclusion he quotes Jackson as follows

'We do full justice to our patients when we tell them that while the foreign body may be coughed up it is very dangerous to wait, and further, that the difficulty of removal increases with each hour the body is allowed to remain'

JEROME R HEAD, M D

Clerf L H Bronchoscopic Aids in Thoracic Sur gery Surg Clin A Am, 1926 v1 281

Clerf states that hronchoscopy, while of great value in the treatment of acute suppuration in the upper and middle lobes of the lung, cannot take the place of surgery in the treatment of chronic suppuration with extensive bronchial dilutation and fibrosis or large abscess cavities situated peripherally

He reports the case of a 17 year old girl with a history of chronic coughing and the expectoration of from 40 to 90 c cm daily of thick purulent sputum The pathological changes were limited to the right lower lobe. Weekly aspirations resulted in a decrease in the amount of sputum and releved the foculd odor Pneumography showed marked contraction of the lower right lobe and marked dilatation of the bronch down to the terminal ends, little general condition has now improved to such an extent that surgical intervention is feasible

Clerf reports also the case of a 33 year old man with cough fever, and profuse expectoration due to pathological changes in the right lung. Aspiration has been done six times. The first bronchoscopic examination showed pus coming from the onfices of all three lobes of the lung After three aspirations the upper lobe remained clear and the condition of the middle lobe was improved, but the amount of pus remained the same and the loss of weight con Pneumography revealed a rather large cavity in the distribution of the posterior branches of the right lower lobe and involvement of a con siderable portion of the middle lobe. As this collection of pus is not favorably situated for spontaneous dramage through the natural passages, external surpery will be necessary

Precumography is a very valuable aid in the localization of a pus collection and the determination of its extent

IRA FRANK M D

Dworetzky J P Artificial Pneumothorux in the Treatment of Pulmonary Tuberculosis and Its Effects on the Larynx Ann Otol Rhinol & Laryngol 1926 xxxv 42

The author observed that zone of his patients with pulmonary tuberculous who were treated by artificial pneumothorar developed lary ngeal tuber culouss and that pre existent laryngeal lessons were either corred or benefited by the collapse of the lung in contrast to this finding he and others have observed that approximately 25 per cent of persons with pulmonary tuberculous who are not treated by artificial pneumothorax develop laryngeal tuberculous.

As he was mable to discover any statistics in the iterature the author woole letters to numerous subnoities inquiring as to their observations on this matter. In this way he collected a sense of 3 500 uncomplicated cases treated by artificial pneumo-thorax Laryngeal molitement developed in only four. He obtained also reports on thirty two patients with pulmonary tuberculous complicated by larvageal tuberculous who were unmitarly treated by larvageal tuberculous who were unmitarly treated Of these tenty are showed improvement of both the pulmonary and the lary ngeal lesson two deed and in four the condition remained stationary

The hereficial effect of artificial pneumothors on larvingeal lesions is attributed to the improvement in the general condition caused by the collapse of the lung as the result of which the laryin is no longer continually hathed with hacill laden sputum and is relieved of the rititation caused by the cough.

Felermann J The Care of the Bronchial Stump Following Amputation of the Lung. (Zur Ver sorgung des Bronchialstumples nach Lungen amputation) 4rch f kin Chir 1025 externi 300

In there, operations on dogs the author tested the three methods of treating the brunchial stump after amputation of the lung namel; the method of Tregel that of Frederich and that of Meyer In Meyers method the stump is crushed and lighted and then burned by perhornchal stutters similar to Lembert sutures. The author considers thus method the best but in buring the stump he uses a suture similar to the one used for the stump of the appendix which is known as a diagonal suture.

Recently in doing a resection of the long in three dogs he divided the bronchus according to the method of Melaikoff and united the two branches end to end. The uniting autures were perhironchial and similar to Lembert sutures. Dogs operated upon in this manner survived for almost three months whereas those operated upon by the methods previously used survived at the longest for only seven dats.

In a modification of this method which has been used by Melinhod in investigations on the cadaver the smaller bronchus is fitted into the larger one for a distance of from 1 to 15 cm after the removal of the mucosa.

The author considers the problem of the care of the bronchual stump as solved experimentally but reminds us that the condition in a healthy animal differs from that in the diseased human organi m GLASS (Z)

Miller W S A Study of the Human Pieura Pul monalis Its Relation to the Blebs and Bullæ of Emphysema Am J Reentgenel 10 6 x 300

During the past year several lungs used in studies of pulmonary tuberculosis have presented a peculiar unniled appearance of the pleura over more or less circular areas from 1 to 5 cm in diameter. No adhesions were attached to them. The pleura was freely movable over the underlying pulmonary substance a fact which tended to differentiate the blebs from emphysematous bullæ. With a view toward explaining this finding a study was made of the pleura with spe ial reference to the elastic fibers It was found that in normal pleura anas tomosing fihers extended between the network of elastic fihers in the walls of the alveoli and the elastic fibers within the arrolar and elastic layers of the pleura whereas when a high was present these anastomosing fibers were ruptured and the pleura was separated from the walls of the under lyang alveoli

In the cases studied blebs were associated with a well marked emphysems. Rupture of the walls of a dilated al volue undoubtedly allowed the art of enter the arodar tissues and dis set, the pleura from the underlying lung. Its extension may be arrested where the septs marking out a secondary lobule join the pleura or it may extend over a number of secondary lobules.

During life the cavity of a life, is filled with aur. The negative pressure within the thorac causes it to project hey ond the level of the surrounding plears. With the cessation of respiration there is no longer an influx of air to Leep the thin walled space distended and when the thorax is opened at an autopsy the negative pressure becomes a positive pressure and the bler is prantically emptied of air this gaving rise to the wrinking of the plears which has been described

In conclusion the author suggests that some of the annular shadows mentioned in roentgen literature may have been due to blebs

ADOLPH HAFTENG M D

Carlson E and Bunnell S Can Pleural Effusions Following Thoracotomies Be Prevented by Artificial Pneumothorax? Arch Surg 19 6 xii 919

The authors have found that the dog can live for a short time with considerable positive intrapleural pressure. Eventually, however, it succumbs to exhaustion.

Pleural effusion does not result un arriably when the pleura is damaged. In fact in the authors experiments it was difficult to discover a method of constantly producing fluid. Merely denuding the chest wall of the pleura was unsuccessful Even when, in addition to stripping of the pleura over a considerable area, a rib was sawed longitudinally so that raw bone marrow was exposed to the aspirating effect of the negative pressure, no fluid resulted Cauterizing by beat and then immediately curetting an extensive area of pleura produced fluid in some cases, but in others produced it in only small amounts or not at all However, when cauterization by heat alone was resorted to, as in the last five experiments, considerable amounts of fluid resulted.

Details of the operative technique and two tables showing its results are given. The following con

clusions are drawn

If the artificial pneumothorax is under sufficient pressure to equal the dog is preatest inspiratory effort, the aspirating effect in producing pleural effusions will be prevented. Such a pressure is plantly incompatible with life, as it prevents air from entering the lungs. If even much less pressure is used the dogs will due from interference with ventilation. The experiments indicate that not enough pressure can be used in artificial pneumothorax either to prevent or to lessen the formation of pleural effusion which so frequently jeopardizes the results following thoracotomy.

2 The old procedure of producing adhesions between the visceral and parietal pleura, which was advocated by Sauerbruck and others gives better results. Aspiration of all the air following tight closure of the chest wall and early and repeated aspiration of any fluid formed is therefore in dicated. The fixation of the visceral pleura to the thorace wall by fine catgut sutures might assist in

this process

3 Pneumothorax favors the increase and spread of pleural infection

4 The danger from excess of pressure of pneu mothorax in healthy, normal persons with a normal mediastinum is by no means of minor importance CARL R STERINE M D

### **ESOPHAGUS AND MEDIASTINUM**

Clerf L H Cicatricial Stenosis of the Œsophagus Surg Clin N Am, 19 6 vi 273

A cure of cicatrical stenosis of the asophagus depends on the maintenance of nutrition and the use of a safe and effective method of dilatation. The fluorescope, Yray and accephagoscope should be used to differentiate the condition from malignancy other forms of asophageal disease and aneurism. The most common cause of cicatrical stenosis is the accidental ingestion of lye. Three cases are reported.

The first was that of a 2 year old child who bad swillowed lye four months before its admission to the hospital. For four days the patient had been unable to swallow his saliva. In the author sopinion, the administration of fluids by protocolysis and hy podermoclysis, and the performance of a gastroctomy followed by diagnostic cosphagoscopy.

and possibly retrograde œsophagoscopic bouginage should result in a cure

The second case was that of a man 34, vears of age who had had difficulty in swallowing for seven months. The Wassermann test was 4 plus. Exam nation revealed evidence of extensive chronic acsophaguits and a tight stenosis 27 cm from the teeth. A gastrostomy was done and a string placed by retrograde crosphagoscopy. Dilatation will be carried out twice weekly until a No. 30 French bougie can he drawn up readily. The patient will then be taught to swallow a woven silk bougie the size of which will be gradually increased to Size 40. As luetic strictures have a tendency to contract, the dilatation must be long continued.

The third case was that of a woman 60 years of age who drank lye five months before she was seen by the author. The X-ray showed obstruction at the level of the suprasternal notch and also 8 cm above the esophageal hatus. As the patients state of nutrition remained fair a gastrostomy was not performed. Peroral esophagoscopic bouginage was done at weekly intervals. The upper structure was rapidly dilated to admit a 5 mm full lumen esophagoscopic and the lower structure dilated with flexible tup Jackson bouges. IRA FRANK, M.D.

Reineche R Report of an Unusually Large Duerticulum of the (Esophagus Adherent to the Pleura, and Its Surgical Treatment (Seiten grosses pieura adharentes (Esophagusdivertikel und seine operative Behandlung) Fortiche a d Geb d'Romignistudien 1934 Xxxii 440

The author reports the case of a man 44 years of age who had an unusually large diverticulum of the osophagus which penetrated deeply into the thorac ic cavity. As feeding through a Witzel fistula for twelve weeks did not improve the patient's poor condition the one stage radical operation was per formed The diverticulum was approached from the right and the back. After subperiosteal resec tion of the ribs, an extrapleural exposure of the pos tenor mediastinum under positive pressure accord ing to the method of Enderlen afforded a very good The thick firm diverticulum which did not contract after the separation of the adhesions was invaginated and doubly sutured over and the flap of skin muscle and soft parts then completely closed Death occurred suddenly a day and a half

Autopsy revealed partial pneumothorax on the right side posteriorly adhesions between the lung and pleura and a firm hæmorrhagic infarct the size of a pigeon's egg in the left lung Grasifer (Z)

Melnikoff A Dislocation of the Larynx and Trachea in the Extripation of Tumors of the Cervical Portion of the Œsophagus (Zur Frage der Larynx und Tracheadislokation bei Geschwüsterktirpation in cervicalen (Esophagus abschnit) Zentralbi f Chri 1925 lii 2479

Carcinoma of the upper portion of the œsophagus often involves the posterior wall of the larynx and

trachea In the removal of the upper portion of the esophagus in such cases it is necessary to resect the entire larynx and a portion of the trachea. Because of the extensive mutilation caused by such a procedure the author has worked out on cadavers and dogs an operation in which by simultaneously dislocating the larynx and trachea. He removes only their posterior wall with the tumor. The larynx and a part of the trachea therefore remain connected with the tissues and vessels of the right side of the neck.

The defect is then covered with flaps of skin. The lumin of the traches esophagus and phary avare first sutured into the skin. At a subsequent operation the larpyr and traches are replaced in their former positions and united above with the pharyn and below with the traches. This is best done at the time a plastic operation is performed to restore the crosphagus.

The author hopes by this operation to preserve all the functions of the voice completely

Dences (Z)

#### MISCELLANEOUS

Butler P F and Habbe J E Problems in the Diagnosis and Treatment of Metastatic Tu mors in the Chest Radiology 1926 v1 400

While metastases of malignant tumors to the abdominal organs spine and long bones may be symptomies they are more frequently associated with ascites nerve root pains or spontaneous fracturers. Slent metastases are probably associated more frequently with secondary new growths in the chest than with those in any other region.

The majority of patients with well advanced pul monary metastases are free from symptoms. In order to avoid unnecessary and even harmful operations in such cases greater cooperation is necessary be tween the surgeon and radiologist.

Not all cases of metastatic malignancy in the chest are suitable for radiation therapy but when indicated it usually causes marked amelioration of the symptoms and a temporary remission of the

e symptoms and a temporary remission of the sease STANLEY I SEEGER M D

# SURGERY OF THE ABDOMEN

#### ABDOMINAL WALL AND PERITONEUM

Koontz A R Experimental Results in the Use of Dead Fastia Grafts for Hernia Repair Ann Surg 1926, lxxiii 523

The work of Sencert and Nageotte on the trans plantation of dead tissue is reviewed. In twenty one operations on cats and dogs, koontz used grafts of dead fascia which bad been preserved in 70 per cent alcobol for from three to twenty one days. Auto grafts isografts, and grafts from different species were employed. The animals were excrificed from two to seven months after the transplantation. All showed firm union between the dead graft and the living fascia and no evidence of obstruction. Micro scopic examination revealed a close intermingling of fibers.

Large ventral hernix were produced in dogs and completely repaired by dead fascia grafts

Heteroplastic grafts took just as well as homo plastic grafts

The article contains a number of excellent illus trations

WILLIAM J PICKETT, M D

Weeks A, and Brooks L. The Treatment of Acute Peritonitis California & West Med 1020 XXIV 622

The advisability of drainage in acute peritontic has been discussed for many years, and although many surgeons now use it less frequently than formerly, the authors believe it is often indicated. It adds in removing the toruns and facors the evacuation of secondary abscesses through the drainage channel. Nothing should be given by mouth as it is necessary to reduce peristalsis to the minimum.

Wet dressings as hot as the skin will bear should be applied over the entire abdomen. Abdominal distention is relieved most safely by tap water enemas or colon irrigations

It is advisable to give a sufficient quantity of opiates to relieve the pain but a quantity sufficient to keep the patient narcotized will paralyze the bowel and reduce the oudative processes

Gastric lavage at intervals of three or four bours is used when the intestinal contents are regurgitated into the stomach. A duodenal tube may be kept in position for some time by stripping it after it has been properly passed. By this procedure the patient can take a considerable quantity of water into the stomach. Frequent gastric lavage begun early is essential. Five per cent sodium bicarbonate and 5 per cent glucose are given by proctoclysis as a routine, and the flatus is removed by colonic irrigations. If an insufficient quantity of fluids is absorbed in this way from r 500 to 2,000 ccm of

normal salt solution are given beneath the fascia lata and roop c cm of ro per cent glucose solution are given intravenously once or twice daily

In cases with excessive vomiting and resulting alkalosis large quantities of sodium chloride or 50 c cm of a 5 per cent calcium chloride solution are given together with 1 000 c cm of a 10 per cent glucose solution administered intravenously, and from 1 500 to 2 000 c cm of salt solution are injected into the muscles, the bicarbonate solution then being omitted from the proctoclysis

It is necessary in these cases to keep up the body fluids so that the blood can carry oxygen in sufficient quantities to give glucose to protect the liver function to keep up the chlorides and to maintain the stomach at absolute rest so that the bowel will be placed at rest

The authors report a number of interesting cases, giving the history and treatment in detail Recovery resulted in all HAROLD M CAMP, M D

Steinberg B, and Ecker E E The Effect of Antiserum Against the Coll Soluble Toxic Substance of Bacillus in Bacillus Coll Perltonits J Exper Med 1926 vlin 443

The authors carried out experiments on rabbits to determine the role played by toxins in pentionitis and to elaborate an antition of the bacillus coll Injections of the toxins of the bacillus coll obtained by centrifugalizing a beef broth culture and destroying any bacilli remaining in the supernatant fluid caused pertonitis and death

An antiserum against the soluble toxic substance of the bacillus coli was elaborated from rabbits which were injected intravenously with the super natiant fluid of centrifugalized young cultures of the organism. When this antiserum was given intravenously to twelve rabbits immediately or half an hour after the intrapentional injection of five times the usual letbal dose of bacillus coli ten of the animals survived. I Edward Brishow, M.D.

Sicard Robineau and Lichtwitz Roentgeno graphic Shadows Suggesting Calculi in Tuberculous Pelviperitonicis (Ombres radiographiques pseudo-calculeuses symptomatiques d'une pelupéritonite tuberculeuses) Bull et mém Soc méi d hép de Par 1926 xlu 127

A woman 35 years of age entered the hospital complaning of scatica and pain in the right lumbar region. Several years previously sbe bad fever and became emacated but did not cough or expectorate Except for this attack, sbe had always been well. At the time she entered the bospital ber tem perature was normal and ber general bealth excellent.

20 Ot

On \tag examination the spinal column was found normal but the rontigenogram showed two large shadows in the pelvis which suggested bladder stones. One of these shadows was in front and to the right of the last sacral vertebra. It was the form and size of a pigeon s e.g. and very much darker than the sacrum. The other was to the left of the fourth sacral vertebra and about the same density as the sacrum. The physical and roentgen examinations of the lungs showed nothing abnormal Cystoscopy revealed congestion of the bladder but no stone.

At laparotomy a mass was removed from the pelvis. In this mass there were numerous caseous abscesses some zones which were soft and other zones which were clerotic. Histological examina

tion revealed tuberculosis

The roentgen spots described are often seen in cassous processes in the lungs but are rarely observed in tuberrulous peritonitis because of the opacity mobility and length of the intestine and the extent of the peritoneum. They can be deterted in pelipperitonitis because the pelvic peritoneum in the pouch of Douglas is out of the way of the intestines.

\*\*APREVE Monosan MD\*\*

Cutierrez A Mobilization of the Root of the Mesentery Its Surgical Value (Consideraciones acerta de la movilización de la ratz del mesenterio su valor quirurgico) Rev de curug Buenos hires 10 6 v 6

To trach the lumbosacral sympathetics retropentioneal tumors and stones in the urter in the region of the ihac vessels the author makes an incision slightly below and to the left of the root of the mesentery and displaces the latter by blunt dissection upward and to the right. This exposes the structures in the right lumbar region as far as the lower border of the third portion of the duo denum.

By pulling the great vessels over to the left toward the midine the tight lumbar sympathetic trunk may be reached and by prolonging the in cision at the lower end slightly to the left and displacing the vessels to the right the left lumbar sympathetic trunk is exposed. To reach the sacral trunk it's new essars only to continue the lower end of the incision downward.

of the technique practically unnecessary

John W. Brennan M.D.

#### GASTRO INTESTINAL TRACT

DieterIch W and Rost F The Effects of Roent gen Ray Irradaxtion upon the Gastric and in testinal Secretions (Ueber das Verhalten der Magen und Darmsekreion bei Roentgenbestrah lung) Strohlenikerapie 1925 xx 108

To determine the effect of roentgen ray irradia tion upon the secretions of the stomach and intestine the authors carried out experiments on dogs, using a very penetrating ray so that the deep dosage was between 20 and 2 z p per cent. The tension of the apparatus ranged from 180 000 to 200 000 volts. The size of the field was 20 by 25 cm and the cur rent was between 2 5 and 3 0 ma. A filter of 0 5 mm of 2 min numm was used. The por tions of the body not to be irradiated were well protected.

It was found that neither massive nor intense retadation of the head or the lower portions of the body caused any noteworthy decrease in the and or ferment content of the gastric or diodenal secretions. An occasional increase in the arid values and the pepsin content of the gastric secretion which was noted after the lapse of weeks could not be ascribed to the irradiation of the stomach with heavy doses result regularly in a decrease in the arid of ferment values.

Subsect 23

Von Stapelmohr S. A. Case of Diffuse Acute Phlegmonous Streptococcus. Gastritis Diagnosed During Life: Cured with Hourglass Stomach (Ueber enen hall von in vivo dagno tuneter diffuser akuter phlegmoneser Streptokokkengastrit Heilung mit Sanduhrmagen). Hien kin Hekn sehr 1925 xxxxii 1010.

The author reports a case of acute phlegmon of the stomach a condution which a very seldom diag nosed or operated upon. The patient was a woman 45 years of age who had previously suffered with symptoms resembling those of gastine ulcer and for two days had had a temperature of 39 degrees C associated with very seven, pain and protective tension in the region of the stomach. The rest of the abdomen was negative and the general condition good After the disappearance of the abdom inal tension a hard mass was palpahle in the left hypochondrum

À laparotomy performed on the mnth day undet the diagnosis of infected paneratic cyst reveiled a tumor like phlegmonous inflammatory infiltration of the transverse mesocolon gastrocolic ligament transverse colon and omentum which extended upward to the endematous stomach which showed similar changes. After separation of a few loop of the small increase after separation of a few loop of the small increase of the small participation of the prior tate from the wall of the stomach showed strepto cocci and bacillus subtili

When the patient was examined five years later she was free from symptoms but chemical examination revealed absence of free hydrochloric acid in the stomach and roentgen examination showed on the lesser curvature an hourglass constriction about the width of a finger

Gmelin E The Diagnosis of Syphilis of the Stom ach (Zur Diagnose der Magenlues) Peitr klin Chir 1923 exxxiv 597

With the exception of the rectum the gastro intestinal tract is very rarely involved by syphili In the last 10,000 autopsies at Eppendorf, not one case of syphilis of the stomach was found, and in a period of forty years Fraenkel saw only four In two of the cases seen by Fraenkel the small intesting was also involved.

A clinical diagnosis of syphilis of the stomach cannot be made with certainty but the presence of the condition may be suggested by the history the Wassermann reaction and the results of specific treatment The most important sign is anacidity

or hypacidity

In two cases which came to operation on Sudeck's service under the diagnosis of ulcer and carcinoma respectively a dense infiltration suggesting an inflammatory process was found. This area was not sharply delineated from the normal tissue. Macro scopically, the resected specimen showed multiple infiltrating ulcers and microscopically an infiltration of the submucosa by plasma cell and lymphoid elements and occlusion of the lumina of the blood vessels by cellular maternal.

Specific treatment is recommended. When the diagnosis is first made during the course of an operation, resention of the affected portion of the

stomach should be done

Schmid O The Condition of the Vagus Nerve In Cases of Gristric and Duodenal Ulcer (Ucher das Verhalten des Nervus vagus bei Ulcus ventri cult und duoden) 13 sen med 11 chnischr 1925 1xx 1904

Bergmann first suggested the spasm or nerve origin of uleer in 1973. His theory was based on the observation that persons with gastric or duodenal uleer show signs of a disturbance of the sympathetic nervous system. He concluded that the primary condition is probably a reflex urritation of the vagus nerve which causes a spasm of the muscula ture of the walls of the stomach. Reference has been made also by minerous other uriters to a relationship between disturbances of the vagus and uleer of the stomach.

Experimental work on the subject however has given very divergent results which do not by any means always support the neurogenic theory. To prove this theory it is necessary to demonstrate changes in the vagus in cases of ulcer. In thirty cases of gastric or duodenal ulcer in which the vagus nerves were examined by the author they showed no important differences from those in the control cases. None of the findings indicated damage to these nerves with certainty. The author therefore concludes that there is no anatomical basis for Bergmann's theory of ulcer.

Hirscu (Z)

Delore \ Mallet Guy O and Vachev A Mul tiple and Recurring Forms of Uicer of the Stomach (Les forms multiples et readwantes de l'ulcère de l'estomac) Lvon chir 19 5 xxii 620

Chronic ulcer of the stomach may be considered a local lesion subject to cure by local excision. For

ulcers of the lesser curvature excision is the primary treatment. For ulcers of the pylorus excision is secondary to gustro enterostomy and, after the failure of gastro enterostomy, is necessary to effect a cure. The late results are excellent. The study reported in this article was limited to the multiple and recurrent forms of ulcer constituting an "ulcer disease of the stomach. The treatment of choice for this condution also is surgical.

The following types of cases are distinguished (r) those in which multiple ulcers (usually two) develop simultaneously or in succession (2) those in which after the cure of an ulcer by gastro enterostomy a new ulcer appears in a different location and (3) those in which an ulcer develops at the site of a resection (this can be properly called

a recurrent ulcer)

The description of the pathological anatoms is based on forty cases. In only seven of these did the ulcers occur simultaneously in the same region. This incidence is probably abnormally low because the authors have usually found several ulcers in the same specimen often a large one surrounded by several lesser ones. In thirty three cases ulcration occurred at the pylorus and on the lesser curvature and in two at the pylorus and on the anterior wall. Frequently the pylorus lesson is the older of the two as shown by the progress of healing. Only once was the reverse found true

A clinical diagnosis of multiple ulcer should not be made from either the history or the physical examination except in cases of hourglass stomach

combined with pyloric stenosis

When the ulcers occur in the same region, they may be widely excused. After wide exusion of an apparently isolated lesson, examination of the specimen not infrequently reveals the more complicated pathology. When excision necessitates a pylorectomy the operation should be performed in two stages.

An ulcer of the pylorus associated with an ulcer in the body of the stomach neither of which is causing stenosis, is usually best treated by simple gastro This may be expected to cure the enterostomy lesion of the pylorus and favorably influence the lesion in the body. A wide excision including the pylorus and enough of the body to include the other ulcer is the operation of choice, but usually the pathological changes render the operation unjusti fiably long and complicated Under certain cir cumstances a gastro enterostomy may be combined with excision of the ulcer of the body Occasionally, when there is reason to believe that the lesions are tuberculous surgical treatment is contra indicated hecause of the high mortality of even gastro enterostomy

Pyloric stenosis with an uncomplicated ulcer of the lesser curvature is an absolute indication for gastro enterostomy. If the lesions prove intract able a secondary resection is indicated

In cases with a pyloric and a midgastric lesion the latter alone producing stenosis, it is best to 204

resect the entire lower portion of the stomach to a sufficient extent to include the midgastric lesion Because of the patient's poor condition a prelum mary anastomosis of the upper pouch and the jejunum may be necessary When the patient can withstand only the symplest of operations a gastrostomy may be performed and the tube passed into the duo denum

A double stenosis calls for radical removal of both lesions unless the general condition forbids it or the lesion of the body is too high. Under the latter circumstance a gastro enterostomy with or without

a gastrogastrostomy is performed

In the same class with these complex lesions are the ulcers which develop in another location after the cure of a pyloric ulcer by gastro enterostomy When the secondary ulcer is in the jejunum it is usually ascrabed to the technique of the gastro enterostomy trauma silk sutures or hamorrhage This complication is more common than is generally supposed It is due not to technical errors but to an ulcerative disease of the stomach a condition often associated with tuberculosis. The secondary ulcer may develop also in the lesser curvature in spite of a gastro enterostomy. The treatment is resection

An ulcer recurring at the site of a resection is rare It is the more rare the more extensive the resection The best prevention of recurrence is rigorous post

operative medical treatment

The author performs the Billroth II operation almost exclusively. He finds that the Pólya opera tion kinks the intestine in spite of all precautions and the Pean procedure places the anastomosis in the area from which the ulcer have been resected ALBERT T DE GROST M D

Amherger Perforation of Gastrle and Duodenal Ulcers (Ueber Perforation von Magen und Duo denalge chwueren) Zis hr f aer il I ortbild 1925 \*XII 535

Like others Amberger has observed an increase in the number of cases of perforation of gastric and duodenal ulcers in recent years. During the eleven years from 1908 to 1919 he saw eighteen while in the four years from 1919 to 1923 he saw thirty nine In both periods go per cent of the patients were males and most of the ulcers were situated in the vicinity of the pylorus so that it was often difficult to determine whether they were in the stomach or the duodenum. The season of the year and trauma had no part in their causation. It is problematical whether the difference in the foods ingested or the widespread use of nicotine is responsible for the increase

Since the prognosis is favorable only in the first twelve hours an early diagnosis is important. This is not difficult if the possibility of perforation is horne in mind. In doubtful cases it is better to do one faparotomy too many than one too few

The treatment must be surgical In his first cases Amberger merely closed the perforation by suture but in his last twenty eight cases he did a posterior gastro enterostomy with the modification of kausch The total mortality was 37 per cent which was extremely low. According to Amberger the mortality depends less upon the nature of the surgical procedure than upon the length of time that clarses between the occurrence of the perfora tion and the operation

Berner J II Internal or Surgical Treatment of Bleeding Gastrie Ulcer? (Interne oder chirur gische Behandlung blutender Magengeschwiere?) Norsk Mag f Laegeridensk 1025 JXXXII 1320

During the period from 1014 to 1023 the author treated 126 cases of gastric and duodenal hæmor shage Thirty eight of these he excludes from this review because the bleeding was mild and not asso crited with marked animia. In the eighty eight others there were thirteen deaths a mortality of 146 per cent The patients who died ranged in age from 7 to 63 years Eight were females. Ten cases came to autopsy. In no case of ulcer was there a perforation

This series of cases shows that death due to bleed ing from an ulcer is very rare. Harmorrhage from other causes seems to be fatal more frequently Three of the deaths in the author a cases were due to varicose gastric hamorrhage associated with liver disease one was due to hamorrhage eaused by a carcinoma and two resulted from hemorrhage due to a hamorrhagic diathesis caused by infection (leukamia) Of these cases none could have been cured by operation. An ul er was found at autop y in only four

The internal treatment of bleeding gastric and duodenal ulcer gives such good results so far as life is concerned that surgical measures are not neces At any rate when a patient is moribund the case should not be turned over to the surgeon in order that if death follows a futile operation the surgeon may share in the responsibility. Instead it would be hetter to adopt Fin terers practice of operating in every case of bleeding gastric ulter

KORITZINSKY (7)

Ochnell H Experiences with the Parenteral In jection of Albumin in Gastric Duodenal and Jejunal Ulcers (I rfahrungen ueber paren terale Lawerssbehandlung bei Magen Duodenal and Jejunalulcus) Stenska Laekartidningen 19 5 TTIL 807

Since 1923 the author has treated thirty one cases of ulcer with novoprotein. Twenty nine were ambulatory cases. The reactions were not as severe as those described by Cerman physicians

In the cases of Group 1-those not previously treated for ulcer-the treatment resulted in a subsective cure in fifteen and failed in two. In Group 2 -cases in which an ulcer diet had been given previously—it gave a subjective cure in seven and failed in three Only four cases showed a recurrence after two months

Important for the success of protein therapy are dietary measures and rest after meals. Ambulatory treatment is to be recommended only for patients

whose living conditions are good

The decision as to the effect of novoprotein treat ment must almost always be subjective. While this treatment contributes toward a cure in a certain percentage of cases it does not by itself constitute an ideal method for the definite cure of ulcer. Hereafter Oelinell intends to place chief reliance on the old methods with rest in bed using ambulatory novoprotein treatment only in cases in which the patients or circumstances indicate it.

GERLACH (Z)

Heyd C G Carcinoma of the Stomach Resection Implantation of the Duodenum into the Pan creas Ann Surg 19 6 lyvun 546

The patient whose case is reported was a man 43 years of age who gave a history of loss of weight weakness cramp like pains in the epigastrium several hours after cating and tarry stools. The X-ray showed an irregulanty on the mesial surface of the stomach and an arrow canalization through the distal portion of the pylorus.

Operation revealed an infiltrating carcinoma of the distal third of the stomach and protruding through the patitious pylorus an annular carcinoma tous uleer with involvement of the lymph glands along the lesser curvature of the stomach and be

tween the duodenum and pagereas

A subtotal resection of the stomach pylorus and first portion of the duodenum was done and a Billroth II operation performed. As there was in sufficient duodenal tissue for an inversion the stump of the duodenum was sewed over and implanted into the peritoneum of the pancreas. The operation was followed by the development of a localized empyema evidently secondary to a subpleural abscess which was probably of embotic origin. This was drained. The gastric wound healed thoroughly and the pattent was discharged from the hospital thirty three days after the operation on the stomach.

I COWARD BISHLOW M D

Hanssen F S The Results of Surgical Treatment of Gastric Cancer (Resultate der chrurijischen Behandlung des Magenkrebses) Norsk Mag f Laegendensk, 19 5 lxxvv1 1305

Hanssen reviews 280 cases of gastric cancer which were treated in the penol from 1909 to 19 3. One hundred and ninety one of the patients were men In 25 4 per cent of the cases a gastrectomy was done with an operative mortality of 8.45 per cent. In 26 1 per cent. and 210 per cent. and operative mortality of 210 per cent. and in 10.3 per cent. an exploratory laparotomy with an operative mortality of 130 p.r. cent. In 20 per cent. vanous palliative operations were done and in 26.3 per cent. to operation was performed.

Of fifty one patients subjected to gastrectoms more than three years ago fifteen (294 per cent)

lived three years or longer after the operation but eight of them died from recurrence of the carcinoma from three to seven years after the operation Seven patients were still alive from three and one half to fifteen years after the operation six were cured and one patient who was operated upon seven years ago is now suffering from pernicious anaemia.

The length of time between the app-arance of the first s mptoms and the patient's admission to the hospital was on the average the same for those operated upon radically later as for those operated upon otherwise. The duration of life after operation averaged 658 days in cases of gastrectomy 275 days in cases of gastre enterostomy and r27 days in cases in which an exploration laparotomy or no operation was performed KORITELISKY (ZO)

Gosset, A and Thalheimer, M. Pulmonary Complications in Gastric Surgery Autohæmo therapy (A propos des complications pulmoraires dans la chiurgie gastrique autohémothérapie). Bull et mêm Soc noi de chir. 19 6, lii 193.

The pulmonary complications which frequently follow gastric operations are usually mild but occasionally may be quite severe. In 248 cases in which Gosset and his assistants performed a gastric operation in 1925, there were seven fatal pulmonary complications. In three in which an autopsy was performed a massive pneumonia was found.

Clinically the pulmonary complications were of two types. In one the temperature rose the first evening to about 39 degrees C and the chest be came filled with coarse rales but defervescence occurred after one or two days. In the other the temperature rose on the third or fourth day and remained persistently elevated while the signs of a true bronchopneumonia developed in the chest. In some cases the expectoration became fectul indicating the presence of gangrene and in one case severe hampits so occurred. The treatment of these complications is briefly discussed.

Föllowing Vorschuetz and de Graser, the authors treated seven cases of pulmonary complications by injecting the patient's own whole blood. In three of these cases the complications followed a gastine operation. From 20 to 30 c m of blood drawn from an arm vein were re injected into the muscles of the thigh. Usually the temperature fell after about twenty six hours and simultaneously the auscultatory signs began to disappear. This result could not be obtained after the third day of the infection. In no instance did the injections have any untoward effect.

LAWRENCE JACQUES. W.D.

Delore X Creyssel J and de Rougemont J Pre Operative and Postoperative Care in Stomach Operations (Les sons pré et post opératores dans les interventions gastriques) Presse med Par 10 5 xxuii 4410

In addition to the ordinary pre operative care given in any case in which a laparotomy is to be

performed the authors believe that when a gastric operation is indicated pre operative gastric lavage should be done except in a few rare instances. The objection sometimes urged that it shocks the al ready weakened patient is not tenable since expe rience has shown that the weakest patients bear layage very well and these are the ones that would be most injured by the absorption of retained gastric fluid If lavage is performed gently and slowly with hot liquid there is no danger that it will cause hamorrhage except possibly when copious hamor rhage of red blood has already occurred from the ulcer It should be done in the evening before the operation and followed by almost complete abstention from food

In addition the mouth and teeth should he care fully disinfe ted for several days before the opera tion and if necessary fluid should be supplied by repeated injections of physiological salt solution If diuresis is low (,00 to 800 c cm of unne for ex ample) glucose solution should be given Roentgen examination should be avoided the day before the operation unless it is absolutely necessary presence of bismuth in the stomach during opera tion is troublesome and seems to favor separation

of the sutures

Postoperative gastric lavage is very beneficial when indicated but should not be practiced rou tinely to prevent possible complications. The chief essential in the postoperative care of the normal case is nutrition. It has been the custom to give nothing but liquid for several days but semiliquid food may b given on the second or third day. This may save the lives of patients who otherwise would die of acute manition and dehydration with second ary toxic symptoms due without doubt to arrest of kidney elimination. Of course the feeding depends upon the indications in the particular case. In a case of non stenotic ulcer treated by simple gastroenterostomy fasting will do no harm while in a case of stenosis from tumor nourishment should be given as soon as possible

The most frequent postoperative complication is hæmorrhage into the stomach. This is generally shown by the repeated vomiting of small amounts of liquid mixed with dark blood. The treatment is hot gastric lavage which not only removes the blood but usually restores the muscle tonus If instead of regaining its tonicity the picture of acute dilatation develops evacuation and hot lavage are indicated but if true pentonitis has developed lavage will do no good and the ordinary treatment for peritonitis should be given

Sometimes a vicious circle is established and at the end of the first or the beginning of the second week the patient begins to have uncontrollable bilious vomiting Lavage may be tried but if it fails and the symptoms grow worse operation must be performed at once Two other complications which require operation are occlusion by the hut ton and secondary closure of the opening hy cica tricial contraction The former occurs between the twelfth and twentieth days when the anastomosing button is expelled and the latter generally at the end of from one to three months but sometimes later AUDREY G MORGAN At D

Butler E and Delprat G D Intestinat Obstruc tion California & ti est Med 1926 vur 488

This article is based upon ninety three cases of intestinal obstruction operated upon at the San Francisco Emergency Hospital with a mortality of 34.4 per cent The treatment given in such cases is as follows One thousand cubic centimeters of a 10 per cent

glucose solution are given intravenously and if the patient is toxic and dehydrated very slowly. Hypo dermoclysis Weeks drip and gastric lavage are

employed if the operation is delayed

The field of operation is dry shaved scrubbed with ether and alcohol and painted with a 5 per cent alcoholic solution of picric acid. Ether anæsthesia is used when the cause of obstruction is undeter mined as in cases of internal hernia volvulus or adhesions while nitrous oxide-oxygen or local anxsthesia is employed when the obstruction is produced by a strangulation Enterostomies are usually done under local anxisthesia. During the operation normal salt solution is given subcuta neously into the avillae or deep into the muscles of the thighs if the surgeon deems it necessary

If the cause of the obstruction is not evident at once the hand is introduced when the pentoneum is opened and a search is made for the site of the obstruction Any band of adhesions volvulus thickened bowel tumor or fixed bowel is usually palpated immediately This procedure very often does away with unnecessary handling of loops of distended bowel

Matthews believes that enterostomy in the first loop of jejunum and immediately above the obstruc tion if there is any damage to the muscular wall should always be performed particularly if considerable vomiting has occurred

After the operation in the authors cases the nurse is instructed to flush the catheter with normal salt solution every two hours or if it becomes plugged more frequently The catheter is con nected with a bottle hanging on the side of the bed The quantity of fluid that will be drained from the upper jejunum in the first twenty four hours is large If the dramage is continuous the toxic condi tion rapidly improves and vomiting seldom occurs Fluids are supplied to the tissues intravenou.ly if necessary but otherwise by subcutaneous and in tramuscular injection

Weeks drip three hours on and one bour off is begun immediately upon the patient's return from the operating room The first fluid that enters the rectum contains 2 dr of tin ture of digitalis Hot compresses to the abdomen are comforting and promote early peristalsis. The authors never give pituitrin until peristalsis has begun Morphine sulphate should not he withheld as the patient must be kept comfortable. The enterostomy tube is removed as soon as peristalsis is active and the bowels have moved

In none of the authors' cases has there heen any disturbance from the fistula after the removal of the enterostomy tube

CARL R STEINEE M D

Perlmann J Clinical Contributions on the Pathology and Surgical Treatment of Intes tinal Obstruction (kimische Beitraege zur Pathologie und chrurgischen Behandlung des Darm verschlusses) 4rth f blin Chr. 1925 (2xxu 245

In 215 cases of ileus operated upon during twenty years there were 200 cases of mechanical ileus and ten cases of adynamic ileus. Eighty per cent of the patients with mechanical ileus were males. In the 1rt cases of volvulus the ratio of males to females was 8 to 1. These constituted 50 per cent of the total number of cases of ileus. The mortality was quite high—in the total number of cases, 58 per cent and in the cases of volvulus of the small in testine 70 per cent.

Obturation ileus should be treated operatively as soon as possible. The relatively rarely observed intussusception which occurred in nineteen cases is much more common than is generally helieved but is too infrequently diagnosed in children. This fact Perlmann believes is responsible for the high mort-thity from intestinal obstruction in Russian.

Of the operative measures in ileocolic invagination reduction of the invagination gives the best

Great emphasis is laid upon the difference hetween strangulation ileus and obturation ileus. In the former there is an associated constriction of the mesentery

In regard to the etiology of volvulus it was observed that this condition occurred very frequently during the month of August when during the day, the peasants undergo great hoddy exertion in gathering the crops and eat nothing and at evening fill their previously empty gastro intestinal canals with large amounts of vegetable food. The high mortality in cases operated upon is attributed to the already existing peritoritis due to the patient's delay in coming to the surgeon

Attention is called to the relatively slight symptoms particularly at first in thirty five cases of volvulus of the sigmoid flexure. In volvulus of the sigmoid flexure the author regards detorsion as the method of choice, and in suitable cases prefers an anastomosis to resection.

Wolf C G L, and Canney J R C The Treat ment of Heus by Choline Lancet 19 6 ccx 707

Following up experiments in Magnus labora tory and the work of Nice and Grossmann in the Romberg clime in Munich the authors studied the clinical effects of choline by drochloride in the treat ment of ileus

The chincal records of four cases treated with choline tend to support the experimental data and

sbow that intestinal contractions can be easily induced

Therapeutic doses of choline do not seem to be toxic. The drug is administered intravenously in normal saline solution and should be given slowly WILLIAM E SHACKLETON M D

Bolling R W Chronic Irreducible Intussus ception in a Twelve Months Infant Resection Ann Surg., 1926, lxxxiii, 545

Bolling reports the case of a year old infant who was suddenly seized with an illness characterized by vomiting irritability the passage of dark blood and mucus by rectum and distention of the abdo men. The vomiting and bloody stools ceased and the distention gradually hecame less but the irritability continued.

When the child was seen by Bolling two weeks later it did not appear acutely ill but was apathetic and somewhat dehydrated. Examination revealed an elongated mass in the upper part of the abdomen on the right side and extending across the midline \text{\chi} ray examination after a bismuth enema confirmed the diagnosis of chromic infussisception.

At operation an intussusception of the ileocæcal region into the splenc flevine was found. Reduction was possible only to the upper portion of the ascending colon. Resection of the distal ileum, the caccum, and the ascending colon was done and followed by avail anastomous of the ileum and transverse colon. Recovery resulted I EDWARD BISINGW. M.D.

Hertz J and Basset A Cases of Acquired Peri duodenitis (Observations de pénduodenite ac quise) Bull et mém Soc nat de chir 1925 li 1010

In eight of eleven cases of periduodentis the in fection had its origin in the appendix and in three it began in the gall bladder. It reached the periduodenal region by way of the lymphatics and glands and the adhesions formed around inflamed glands. In cases of periduodentis its therefore important to search for appendicutis, and in cases of appendicutis to look for periduodentis. When at operation in cases of pendiuodentis the cause is not evident in the duodenum or the neighboring organish appendix should he examined through the same incision and should be removed if it is found diseased.

In the liberation of adhesions heavy bands should be divided hetween ligatures, and the area should be peritonized as completely as possible. The use of a free omental graft for the peritonization is rarely successful on account of the attenuated infection and the operative site.

When the gastroduodenal disturbances are marked or are likely to recur as the result of the re formation of adhesions, when the adhesions are difficult to liherate or cannot be liherated completely, and when it is impossible to obtain perfect peritomization gastro enterostomy or duodeno jejumostomy should he done

WALTER C BURKET M D

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In the case of an infant weighing 6 lb 9 oz at birth and 5 lb when it was 9 days old persistent vomiting occurred and the \times howed complete obstruction of the diodenum \times to operation the doodenum was found dilated to two thirds the size of the stornerch

In mastomosis between the diodenum and the jejunum was done interior to the colon. After a stormy convidescence the child mide a good recovery.

I I DIVIRD BI BLOW M D

Rapsinow R. The Experimental Production of Duodenal Ulcer by Exclusion of the Bile from the Intestine Ann Surg. 19 6 Ixxxii (14

In the experiments reported the fundus of the gall bladder was implanted transcortically into the politio of the right kidney and when healing was complete the flow of bile was entirely diverted into the unnary tract by ligation and division of the common dust.

Of fort three animal treated in this manner seventeen developed typical duodenal ulcers. The lesions were single or multiple and situated usually in the vicinity of the ampulla of Vater. They bore no relationship to the mesentene border of the in testine. They ranged from minute lesions to ulcers measuring from 1; to a min distincter. They had a punched out appearance the eliges overhanging Frequently they extended through to the seroas. Their microscopic appearance was that of the subacute or chronic peptic ulcer in man.

These experiments showed that duodenal ulcers ean be produced without trauma to the intestinal wall and may be clused in dogs not previously diseased. Whether they preceded or followed the nutritional disturbances incident to the exclusion of bile could not be divided. Further experimentation will be necessary to learn the details of the processes leading to their formation.

LMILC KOBITSHEL M D

Hiden R L and Orr T G The Effect of Jeju nostomy in Experimental Obstruction of the Jejunum of the Dog J Exper Med 19 6 xlm 48t

The authors carried out experiments on Iwenty five dogs to determine the effect of jejunostomy alone and combined with the administration of sodium chloride on the chemical changes in the blood and the duration of life in cases of high rejunal obstruction

Obstruction was obtained by dividing the jeju num and invagnating the ends. The jejunostomy was done by the Witzel operation. The following conclusions are driwn

1 Jejunostomy does not prevent the develop ment of the chemical changes in the blood which are characteristic of obstruction of the jejunum in the dog 2 Jejunostomy following experimental obstruction of the jejunum does not prolong life. There is some evidence that early jejunostomy may shorten life.

3 The treatment of jejunal obstruction with sodium chloride solution tends to prolong the life of animals regardless of the performance of jejunos tomy

I EDWIRD BISHOW M D

Flechtenmacher C. Jr. Radical Operation for Postoperrithe Peptic Uler of the Jejunum with Resection of the Colon and a Contribution on the Choice of Operative Procedures for Gastric Uler (Aur Radskaloperation de Uleus pepticam jejun postoperatium mit Aolant et, tion zugleich ein Bietrag zur Wahl der Opera Il Edmich 2021 [Viz 282] and Edmich 12 n med Il Edmich 2021 [Viz 282]

The author advorates rest ton for p pite ulcer for gastree ulcer he prefers the Billroth I op ration although the Billroth II operation gives equily good results. The treatment of peptic ulcer of the jepunum should be radical surgers. The surg on should not hestate to transverse colon. Dietette after treatment is of importance. Custro enterosioms guarantee neither the healing of an ulcer nor permanent free dome from symptoms and it toes not always protect against recurrence or subsequent perfortion of harmoring. Woreover it permits the confu on of callous ulcer with exercisions and is often followed by peptic ulcer of the gignium.

The nuthor reports several cases showing the of patients who are in poor condition. He admits however that recurrence may develop even fit out a read of particular that of patients with the condition. He dimits however that recurrence may develop even fit out a raid of patient. He believes that when this occurs the tendency to form vicers is so strong that the condition is incurrible by surgers.

For the opinion I is their tout to suggest, and the subdominal will and anothers of the abdominal will and another and another and the subdominal will and another and the subdominal will and another as of the subdominal will be subdominal to make a subdominal will be subdominal

Duettmann Recurrent Appendicitls Following Appendices Abscesses (Ueber Appendicitis rezidive nach appendiciti chen Ab ce en) Unen ch u med 31 chuschr 1925 [vvi 1970]

The author accepts the opinion held at the Giesen Chuic regarding the two stage operation for appen dicular ab cesses and has abandoned the one stage radical pro educe. In 36, cases treated soleth by incision of the abs case there were only three deaths a mortality of 0.5 per cent. Of the 314 (86) per cent) patients who came to the secondary operation only one died a mortality of 0.3 per cent. The total

mortality was therefore about 1 09 per cent which is very low as compared with the mortality of the one stage operation (Wolff, 10 per cent Noetzel Riediger 10 2 per ceot, Dewes 6 8 per cent)

When the appendix is not removed at the first operation, new attacks of appendicitis are not rare Recurrences bave been known to develop as long as nine vears after the incision of an abscess. Of the patients whose cases are reviewed by the author thirty five (9 6 per cent) came for a second treat ment for abscess and twelve (3 3 per cent) for a third treatment. All of these were patients who did not return for the second stage of the two stage operation.

Two hundred and eights five patients (78 3 per cent) appeared for the secondary appendectomy after a period of three or four months. Eighteen who returned later were all re operated upon under the diagnosis of acute appendicitis. In most of these cases a severe inflammation was found.

Of the 285 cases operated upon secondarily after a period of three or four months, total obliteration of the appendix had occurred in only eleven. Acute inflammation was found in sixty five and chronic inflammation in seventy two. In twenty five of those with chronic inflammation there was obliteration of the proximal portion of the appendix with dilatation of the peripheral portion by pus. In seventy three cases the tip of the appendix was obliterated but the proximal portion still showed a good covering of mucous membrane. In two cases hattle had formed.

Duettmann emphasizes the fact that in all pa itents operated upon twice or three times for abscesses the appendix was surprisingly well preserved. Therefore, repeated abscess formation does not always cause obliteration.

He therefore agrees with Kuemmel that a radicil operation is always best. In view of the exceedingly favorable results obtained at the Giessen Clinic with the two stage operation for appendicular abscess he considers the latter the least dangerous procedure and accordingly the operation of choice. The second operation can be combined with the laparoplasty which is so often necessary as a second procedure following the one stage operation.

LOEHR (Z)

# LIVER, GALL BLADDER, PANCREAS AND

SPLEEN

Crile G W A Cytoplasmic Rôle of the Liver
Thrap Ga 19 6 \ 166

Starting with living and 'non-living substances as chemically identical and separating these substances into atoms, Crile describes the development of life and its reproduction in terms of electricity. He traces the source of life to the vibrant energy of light and finally applies his theory to the human anatomy, especially the liver and brain

He emphasizes the danger of the cooling of the viscera in abdominal operations and to prevent it

recommends diatherm) to the upper abdomen and lower cless in all laparotomies. He suggests also the substitution of nitrous oxide anæstbesia for ether anæsthesia. In a case which is a poor risk the patient should not be allowed to pass beyond the stage of analgesia reliance being placed chiefly on regional anæsthesia. John A Wolffer W D.

Rubenstone A I and Tuft L A Comparative Study of Liver Functional Tests J Lab & Clin Med 1926 vi 671

The function of the liver is difficult to test as it must be tested indirectly through the blood or bile. The liver has a large margin of safety only one fourth of the organ being necessary to maintain normal function and the functions of the liver are multiple being concerned with the metabolism of carbohy drates protein fat and fron the secretion of bile and the filtration from the blood of novious irritants particularly foreign proteins.

In an organ with so many functions it is difficult for a single test to serve as an index of total function

The hemoclastic crisis of Widal is intended to indicate the albumose storing or proteopexic function of the liver. In the authors experience the findings of this test have been variable and difficult to interpret.

The levulose tolerance test is dependent upon the fact that ingested levulose in contrast to glucose, produces only a very slight use in the blood sugar which seldom lasts longer than an hour. This test may serve as an index of the carboby drate function of the liver but is of climical issistance only when marked liver changes have occurred. It is of little or no aid in the milder hepatic dysfunction in which a functional test is most desired.

Various diseases of the liver are associated with a marked increase in the bilitubin content of the blood resulting often in frank interus. Between the normal and the point at which frank interus occurs is a period of latent interus in which the bilitubin concentration though increased above the normal is not sufficient to cause definite naundice

The quantitative estimation of serum bilirubin is best performed by the metbod of Van den Bergh or Viculengracht. The test serves to indicate the extent of impairment of biliary function and the response to treatment. In the authors cases of jaundice with a high index improvement was shown by a decrease in the index before any chaoge was detectable in the color of the skin. Patients with cholecystitis had indices varying from comfail up to 15 or more. The index was increased in bepatic cirrhosis. Malignancy of the liver always produced a high index.

The phenolitetrachlorphthalen test of Rosentbal has given good results. The percentage of diverentation was found to be proportional to the degree of liver disfunction reaching 3,5 per cent in the severe types. The injection of so much dig in cases in which the liver is already damaged is not always safe.

Studies of the blood nitrogen partition are of thitle value from a practial climial standpoint. In cases of advanced liver disease the ur a value is low and the non-protein nitrogen value compact tively high but in cases with less severe hepatic diseas the proportion i usually within ormal limits. The authory combine the test pin tho follow

ring way. The partent is pr pared as for a levulose tolerance test and the calculated amount of disc contain d in a syringe is made ready. Blood is then withdrawn into two tubes one citrated and one a plain tube Enough blood is withdrawn for alf of the tests. Through the solve medic is all calculated amounts of the contained the contained and the calculated amounts of the contained the contained amounts of the contain

one hour and two hours
After the blood has clotted it is centrifugalized
and the serum in pipetted off. The serum collected
before the nipe tion is used for the icterus index
determination in disas a stindard for the dive test.
The citrated blood collected before the injection is
used for the ura introgen non protein introgen
and surar determinations. Blood sugar determinations are then done on all bloods (citrated) taken
subsequent to the ine-tion and the sera are used
to determine the dive retenue.

HOWARD A MCKNIGHT M D

Berger S S Cohen M B and Selman J J Liver Function Tests A Comparative Study of Five Methods in 100 Clinical Cases J Am W 1st 1936 Person 1114

The authors report 100 cases in which five liver function tests namely the Van den Bergh Widal (hamoclastic crisis) Rosenthal problem and pro-

bilinogen tests were made

Four groups of cases were examined (2) cases of liver disease with plaundice (2) cases of liver disease without ramiles juandice (3) cases in which liver disease was susp ted but not demonstrated clinically and (4) are in which liver disease has the suspected.

The authors found that the various tests do not give parallel results and were unable to separate chinical cases into those of fiver diseases and those without liver doese by means of ann one of these tests unsupported by other climical evidence. Whin all of the lit very positive they were dealing, with liver disease of the mot evere expensionally. Associated with lovic jaundice. In every case in which all tests were positive except the Walat test there was obstructive jaundice due to tumor. This finding is of great value in the differential diagnosis.

JICOB S GROVE MD

Fernstroem B A Case of Subphrenic Abscess with Vomited Gall Bladder icta chiring Scand 1926 lix 534

The author reports a case of gangrenous choic cystitis with abscess formation. When opened the

gall hladder was found to contain gall stones Operation was preceded by the vomiting of blood during which the gall bladder was ejected into the stomach or intestine Recovery resulted

Graham F A Gali Bladder Diagnosis from the Standpoint of the Surgeon Radiology 1926 vi

Lyon B B V The Evolution of Early to Late Gall Tract Dis asc A Brief Consideration of fts Diagnosis and Treatment Radiology 1916 vi

Zink O C A Clinical Study of Cholecystitis with the Aid of Cholecystography Radiology 1926 11

George A W The Practica (Value of the Craham Cole Method in the Diagnosis of Gall Bladder Disease as Compared with the Older Method Radiology 1926 vs 292

GRAIAM calls attention to his previous work showing that h paitin is a constant accompaniment of cholecystitis and that early disaposis and treatment is essential for the avoidance of late and permanent changes in the liver and possibly also in the pain creas. In the past the recognition of gall lisadder disease wa based largely upon the late changes Graiam believes that by chole ystography with the aid of extra sodopin nolphthaleun valuable information of the control of the contro

The criteria upon which a diagness of cholecysis is to be based after the addomen has be nop ned are the following (1) stones (2) adh sions of the gill bladder to surrounding structures (3) thickening and change of color (4) enlargement of the sentine gland of Lund (5) evidences of hepatitis involving chefigh, the gill tobe of the liver. Occasionally gill bladders are opened and removed when the mucosashows changes such as cholected plaques.

The growing cound nee in the significance of chol cystographic findings has led on several or a sons to the removal of a gall bladder which seemed normal on inspection and palpation in every instance in which this was done microscopic examination to yeafed pathological changes in the walls of the organ

Efforts have be a made to use substances for choice; stoggaphy which will make it possible to obtain information relative to hepatic function by serum tests. An isomer phenoliteria indophitalien has been found to an wer this purpose but sufficient work has not yet been done with it to determine its practical value.

Lyon containes him ell largely to a discussion of non surgical drainage of the gall bladder and the diagnostic information which may be derived from it. He cfaims that this procedure provides a means of investigating the living histology of the bilary tract in much the same way as surgery permits the study of its living pathology. Microscopic study of material asparated from the diudenobility tract reveals the type degree and source of epithelial

exfoliation. In the early stages of cholecystitis the changes noted may indicate merely a catarrhal process. If this is allowed to run its course extensive and readily recognizable damage may be done to the hepatic, parieratic, gall bladder, and bile duct cells

Acute gall bladder disease is usually an acute evacerbation of a chronic process. If traced back, it will often be found to have had its origin in a focal infection with repeated local manifectations followed by successive gastro intestinal disturbances of an ind-finite nature cultimating finally in frain, gall bladder spintoms. Non surgical gall bladder drain age not only gives information regarding the presence of pathological changes, but may serve to check or cure the process and thus obviate the ne cessity for surgical drainage.

ZIVA regards cholecystography as of prime importance in the diagnosis of early cholecystitis. He discusses briefly the relative values of and the indications for the oral and intravenous methods of giving the die, and states that questionable findings following its oral administration should always be

checked by its intravenous injection

The diagnosis of gall bladder disease by cholecys tography is dependent upon (1) excretion by the liver (2) pitency of the cystic duct, and (3) the mucosal concentrating power of the gall bladder

Failure to obtain a shadow with the use of a stand and technique indicates (1) cystic duct occlusion (2) hepatic insufficiency (3) a small sclerotic gall bladder with an obliterated lumen (4) cystic lymphatic damage or (5) failure of the dye to be absorbed (when it is given orally). In the absence of this conditions the time of appearance density and motility of the gall bladder shadow are indirect indications of the pathological condition of the mucosa.

Cholecystography gives valuable confirmatory evidence in cases with trank clinical evidences of gall hladder disease, but its greatest value lies in its demonstration of such disease in the early stages when there are only vague gastro intestinal disturbances of doubtful origin. The method was used by Zink in 663 cases. Of 173 of these which were operated upon the findings were confirmed at opera

tion in 96 per cent

George's experience with cholecystography in gall bladder disease has convinced him that the older method of roentgen examination developed largely by himself is equally, if not more reliable in diagnosis except with regard to gall stones. The older method is based primarily upon the fact that the pathological gall bladder may be visualized roentgenographically with a proper technique and that secondary evidences obtained with the aid of the opaque meal such as 'gall bladder seats adhesions to the second part of the duodenum filling of the ampulla of Vater and adhesions to the hepatic flexure of the colon are strong indications of cho lecystitis Visualization of the gall bladder after the administration of die can give information only with regard to the size shape, and location of that

organ Non visualization although of some value may lead to error, especially when the dye has been administered orally. Variations of emptying time are of doubtful significance because the normal time bas not yet been accurately determined. With regard to stones. George states that those of the cho lesterol type can be detected far more readily after the administration of dye than by previous methods.

It is George's conviction that the soundest procedure today for the study of the gall bladder is a thorough examination by the older method with substantiation of the findings so obtained by the use of the Graham Cole procedure

ADOLPH HARTUNG M D

Babcock W W Cholecystitis and Appendicitis Surg Clin A Am 1926 v1 20 Babcock W W Choleithiasis Chronic Salpingo

Oophoritis with Adherent Abdominal Scars

Surg Clin \ Am 1026 v1 30

For the usual appendectomy the author advocates a transverse skin incision 4 or 5 cm in length. heginning i cm median to the anterosuperior spine of the ilium. He believes that the crushing of the appendix with forceps disseminates the infec tion and that a pursestring suture may contaminate the wound He therefore ligates the appendix and ties the stump of the meso appendix over the stump of the appendix Spinal anasthesia is used in cases with purulent peritonitis due to appendicitis. The appendix is removed and drainage used only for the evacuation of solid exudates foreign bodies, blood or blood clots or old pus Packing sponging wip ing and the introduction of the hand into the abdo men are condemned Salt solution given sub cutaneously is preferred to water hy rectum Water and food by mouth are withheld to favor localization of the infection. Localization is in dicated hy the subsidence of pain and tympany and the expulsion of gas and faces If the adminis tration of a little liquid by mouth is followed by pain and an increase in the temperature the localization is not sufficient

With regard to gall stones the author states that in the case of an obese middle aged woman a his tory of a sudden attack of severe indigestion at night and a sense of epigastire fullness which the patient tried to overcome by belching or vomiting both of which were quite relieved the following davis truer evidence of gall stone obstruction than any known laboratory test or method of physical evamination. In certain instances it is well to think of a cardiac attack, coronary obstruction and acritis in

the diagnosis

In operations for gall bladder disease the condition of the liver should be noted as it is the best indication of the prognosis after cholecystectomy. A liver that has been degenerating for from fifteen to twent y ears will not be restored to its primary function by the removal of the gall bladder. When the common duct has been obstructed for some time the author effects gradual decompression of the liver by anastor owing the gall bladder to the duodenum or stomach with the use of an in and out suture which gradually cuts a nev stoma between the two organs. This suture is re enforced by a continuous seroscrous suture.

In cases of bility fistula in which the galf bladder has been removed Babcock carefully dissects out the fistulous tract and anastomoses it to the duo denum or stomach John A Wolfer MD

Fabritus W Spontaneous Perforation in Cholecystitis Without Stones (Spontanperforation but Cholecystitis sine concrementa) With m. M. J. Withinkir 1925 taxy 2580

The sympioms of cholectstitis without stones requestly simulate those of cholethussas and the condition is often not diagnosed until operation is performed. More true are cases in which a severe chronic inflummation of the gall bladder develop without any syrepioms until a fiel threatening complication suddenly develops and necessitates immediate operation. The author reports a case of the latter type. It hapatient a previously healthy the patient are previously healthy in the control of the patient and previously healthy open and only the sale of the control of the sale of the control of the contro

When the pertoneum was opined dark bile gushed out the appendix was normal When the only lightly cultifuel gall bladder was freed from the treat omntum partly by blunt dissection and partly by mixed section from why he dark high was kelly trecking was found on the anticior rapect of the fundix Stones or ern oil demon trails in either the gall bladder or the disperbillary 13 sages. Choleey tectomy was followed by resource.

The cytipated gdf bladder contained no stones and its mutus mint have showed no ulterous of de tru tive processes. At the point of perforation there was a circumstanted necrosis which pene trated the entire this kne s of the gall bladder wall CHIEF (2).

OLLEY (

Bonnet M L and Lapoint M A Perforation of a Cancer of the Gall Bridder into the Peritoneal Cavity Francischery Cholecystostomy and Secondary Cholecystectomy Cure flee foration en privious libre d'un cancer d'la vé teule biliaire chol y to scomme d'usgener et chokcystertomic conduire gartison) Full et mêm Sec nai d'chir 19 0 1 111.

Bonnet reported the case of a woman 5 scars of age who was admitted to the hospital with severe pain in the right hypothondrium associated with muscle spasm and pe satent wornting a temperature of 38 o degrees C. and a pulle of 110 She had hid a similar attack six months previously.

Laparotomy revealed perforation of the gill bladder and free bits in the puritopeal cavity. In inferior surface of the call bladder was adherent to the transver e colon—Stones were carefully sought

het nere not found. The wound was closed with drainage. Convalescence was uneventful and the patient was discharged after cighteen days with a small bihary fistula. Four months lyter the fistula was exit ed and a vibole-systectomy was done

On examination of the gall bladder one stone was found Histological examination revealed an atypical growth of the gall bladder cells with evidence of malignancy. In the author's opinion this was a case of primary cancer of the gall bladder.

Lapont calls ittention to the rarity of cases of rupture of the gall bladder by cancer so fir as he is aware no such case has been reported in the literature. He televes that the diagnosis is possible only at operation as there are no pathognomonic symptoms.

Sohn A Fatal Biliary Leritonitis After Puncture of the Common Duct (Toudhche gallige Peritonius nach Lunkiton des Choledochus) Zenfraibl f Chir 1925 lu 2578

In a pattent with a p netrating callous ulter of the lesex curvature an antenor gastro enterostomy with a Braun anastomosis was performed and a there was a malformation of the intestine a puncture for the common duct was done to clear the site of operation. The puncture was done with a record syinge and a very small needle. After the aspiration of bile a hot salt compress was applied to close the small opening. No seepage of bile was noted thereafter. Four days later the patient died of normousts.

Nutops revealed a biling peritoritis caused by the scape of bile from the point of puncture. This case shows that after puncture of the biliary tracwithout drainage the punctures should always be sourced not that when the common duct is sutured drainage is necessary as a puncture, of the wall may reopen. Workney (2)

Payr E Exposure of the Common Duct in Opera tion for the Recurrence of Stone After Chole cystectomy (Fritlerun, des Ductus choledochus bei Fezdusperationen hach Cholecystektomie) Zeufrabl f Chr. 1925 lt 1926

It is not always possible even with the best cerhaque to avoid leavin, behind small gald stores high up in the branches of the hepstic duct and the p-pills of vater. A method of preventin this error which i described by Pary and Jurasz consists in exploring the bility passages with the ue of rubber catheters and a syring. The author has frequently observed that secondary operations for the removi of stores from the common duct are a occurred with disliculities that it little under some control with the control of the proof of the control of

Almost always following a cholecystectomy there is found a field of adhesions on the anterior vall of

the abdomen which involves the scar in the ab dominal wall, the liver, the transverse colon which is pulled forward, the omentum which is pulled upward and the stomach which is pulled to the right. The separation of these adhesions is easily accomplished by segmental ligation and severance of the omentum. The liver is held up the stomach held to the left and the colon held down

The next layers of adhesions to be attacked are those which hold the duodenum high up in the gall bladder bed. The adhesions between the liver and the upper horizontal portion of the duodenum are usually dense and the duodenum like a cap con ceals similar structures in the hepatoduodenal ligament. Even when the adhesions are very thick, the duodenum can be easily freed with the knife. The verticel portion can then be mobilized by approaching from the right sade according to the method of kocher. This exposes the hepatoduodenal ligament.

The papilla can be approached only after the separation of the duodenum from the liver and further mobilization of the angle. If the foramen of Winslow is patent, this dissection can be facilitated by the introduction of the foreininger. The common duct which is greatly dilated by gall stones impacted at the papilla often shimmers through with a blue color and is easily recognized. The passage way, should be punctured the bile aspirated two small sutures applied and the duct opened.

Investigations of the retroduodenal portion by means of sounds calcult spoons and forceps and the little finger often establishes the presence of concretions. These can usually be removed easily through the dilated passage. If the duodenum has been sufficiently mobilized from the right side stones in the papilla can be pushed along. The main stem and the two large branches of the hepatic duct should then be examined and a T shaped drain inserted.

Workman (2)

Havheek H. A Case of Rupture of the Pancreas and Spleen Curred by Operation and Some Comments on the Shoulder and Arm Pain (Ein operativ gehelter Fall von Pankreas Milz ruptur und einige Bemerkun, en ueber den Schulter Armschmerz) Zentrabli f Chir. 1925 lit. 1967.

The author reports the case of a boy 13 years of age who sustained a rupture of the spleen and pan creas and a dislocation of the hip in a fall. The in jury was followed by severe shock and on explora tory puncture a bloody exidate was found in the pentioneal cavity.

At first a temporary clamping of the pedicle of the spleen was done and the blood collected in the peritoneal cavity, was re infused. When the general condition had improved splenectomy was per formed a piece of the tail of the pancreas which was torn off was removed and the stump of the pancreas was sutured over and invaginated into the posterior wall of the stomach. The abdominal wall was then completely closed.

Convalescence was smooth except for two attacks of severe pain in the left shoulder and arm During the first attack the left radial pulse disappeared entirely and the skin of the arm became cool and evanotic In both attacks the pain was immediately relieved by a novocain block of the left splanch nic nerve by the method of Kappis In the second attack the blocking of the left phrenic nerve was attempted as an experiment but without any success On the basis of this experience the author is inclined to doubt the importance of the phrenic nerve in the conduction of pain and to conclude that in the production of shoulder pain the sym pathetic system (splanchnic nerve) is more re sponsible BONN (Z)

Johnson A A Pancreatic Disease—With Case Reports J Ioua State W Soc 10 6 xv1 160

The author calls attention to the frequency of pancreatic lesions. In the Mayo Clinic they were found in 27 per cent of 4 000 cases of biliary tract disease.

Because of the protected location of the pancreas trauma rarely plays an important part in pancreatic lesions. This location however is unfavorable with regard to infections as the latter may reach the organ by direct extension through the blood or the lymphatic system or through the ducts.

The main cause of acute pancreatitis is infection which activates the ferments and causes self diges tion of the tissues

In 70 per cent of the cases the symptoms arise so suddenly and are so severe that a detailed history cannot be obtained from the patient. Pancreatic involvement is suggested by sudden pain in the registrium faintness, and collapse associated with vomiting retching and frequently jaundice. The diagnosis can be assured however only by seeing and feeling the organ.

While mild pancreatitis often becomes cured the incidence of recovery has been increased by surgical drainage William F Shackleton, M.D.

# Tower L E The Pathological Physiology of Experimental Gangrenous Pancreatitis J im

To reproduce in animals the clinical picture of acute pancreatitis it is necessary suddenly to devitable a sufficient amount of pancreatic tissue to cause extensive necrosis and autodigestion of the gland

As far as the author knows, no one has considered the possibility that the toxerma in acute pancrea titis may be due to a severe local injury caused by the action of the protein split products on the musculature of the intestines and probably also on that of the vascular system

All of the author's attempts to produce a sterile panceatitis failed. Organisms were always found in one or more of the cultures taken from the pertoneal exudate the gangrenous gland localized abscesses ett. However the presence of these bacteria appeared to be merely incidental and due to the reduction in the vitality of the tissues caused by the violent toxamia

In the experiments cited the omentum seemed to

have a detoxifying power

Tower suggests that the toxemus of acute pan creatists acting on the gastic meterinal tract, may produce a toxemus like that associated with para lytte ileus and that therefore the use of sodium chloride as advocated by Haden and Orr or the duodenal irrigation used in cases of high intestinal obstruction might prove more effective than the

introduction of a drain into the pancreas

JACOB S GROVE M.D.

Gutiérrez A Implantation Into the Stomach of a Pancreatic Fistula Following Cyst (Implanta ción de l'istula pancreática consecutiva a quiste en el estómago) Rev de critis Buenos Áirea 1025 19

The author reports the case of a 28 year old noman who for two years had had attacks of severe pain in the abdomen which at first was diffuse and then localized in the engastrium and right hypochondrium and was accompanied by comiting chills and fever. She had also copious diarrhopa and her unne was scanty and dark There was no icterus but urticaria develop d dur ing the first attack Some of the attacks kept the patient in bed for as long as twenty five days About two months before she consulted the author she noticed a rather painful tumor in the right hypochondrium and th adjacent part of th epi gastrium bince then the tumor had in reased in size In the last two months sh had lost 16 kgm ın weight

Examination revealed in the right upper quadrant of the abdomen's amount humor which was freely movable transversel, dull on percussion and sur rounded by a tympanic area. An area of tympany was found also between its upp'r margin and the liver. The Wassermann test and unner and recat gen examinations were negative. Because of the site and free mobility of the tumor a diagnosis of cystic tumor of the transverse mesocolon was made.

At operation performed under general chloroform anaexhesia an uncision through the upper part of the right rectus showed the tumor to be partly above and partly behind the stomach. Its upper segment was covered by the lesser omentum. It had its origin in the pancreas and was independent tall of the pancreas particularly the former showed marked industion. The tumor was found implanted on the antenor surface of the isthmus of the pancreas.

When the cast was walled off and punctured too cm of a citron yellow liquid was evacuated. The gall bladder was displaced to the right by the cyst and was full of stones. Proppert a cholecystos tomy was performed. The wall of the pancreatic

cyst was first sutured to the part tal pentoneum and then to the musle skin layer. The first sutures were of catgut and the second were interrupted sutures of silk. The patient was discharged well on the thirty fifth day but had a fittal which dis charged freely and was very troublesome.

At a second op ration the fixtulous tract was explored with a sound and found to run backward and toward the multime of the abdomen. An injuction of lipsoids showed that it ran transversely at the level of the first lumbar vertebra. Und rebloro form anasthesa a sound was introduced into the fixtula a silk suture was passed around it and it was closed. A crutual rancison was then made around at and by vertical incisions it was exposed for its entire length. It was followed down to the head of the pancreas. The stomach wassufficiently prolapsed to expose the interior surface of the pancreas.

The decision was made to implant the fistulous tract a fibrous cord about the size of a lead pen il into the stomach. This was very easy on account of the ptosis of the stomach Closed Kocher for ceps were introduced into the median part of th anterior surface of the stomach just heneath th tistula passed upward and outward and brought out just beneath the end of the fistula A part of th fistula was cut off enough being left to introdu e into the stomach. The forceps were then open d and an in ision was made in the stomach wall between its blades. The end of the fistula was pulled into the stomach with the forceps and fixed by means of a catgut suture passed through its wall and the stomach wall It's external surface was fixed to th upp r opening in the stoma h with four sutures of fine silk. The lower op ning was then closed with seroscrous sutures. A pad of omentum was placed beneath the free surface of the fistula where it came in contact with the stom ach nall

The steps in the op ration are shown in illustrations. Healing occurred by first intention. For several days the patient complained of nausea Within two months after the operation she had canned a kgm in weight.

Audrey G Morgan M D

#### Harris R I Splenectomy for Purpura Hæmor rhagica Canadian M Ass 1926 vvi 384

Essential thrombocytopenic purpura is differ entiated from the other types of purpura by (1) a low platelet count (2) a prolonged bleeding time with a normal coagulation time (3) a positive capillary resistance test (4) failure of the clot to re tract and (5) enlargement of the spleen

Infection plays a prominent part in the production of the obscure pathological changes which give rise to the disease

The most important though not the only factor causing the hamorrhagic condition is the throm bocytopania

Splenectomy produces a symptomatic cure
HOWARD A MCK-NIGHT M D

#### MISCELLANEOUS

Troell A Comments on the Fahræus Reaction the Stability of the Blood Suspension—in Acute Surgical Affections of the Abdomen Acla chrurg Scand 1926 by 523

On the basis of his experience in recent years and especially in eight cases which be reviews, the author maintains that in acute abdominal conditions of a doubtful and apparently mild type the surgeon can profit greatly by investigating the suspension stability of the blood by the Fahraus test, and in cases given expectant treatment he can profit by making this test repeatedly to determine whether the values are rising or falling

While the Fahrzus test is sometimes a better indication of the intensity of an infection than the leucocytosis, it cannot be regarded as an absolutely reliable indicator of the gravity of nn inflammatory process in the abdomen particularly if the peritoneal irritation is of very recent development. In all of the author a cases of appendicitis and cholecystits with a pathological increase in the Fahrzus value—usually higher in the latter than the former because of the resorption of toxic products from a fairly large serous surface—the patient had been ill for nt least forty eight hours.

Neuhof, H, and Cohen I Abdominal Puncture in the Diagnosis of Acute Intraperitoneal Dis ease Ann Surg, 1926 [xxxiii 454]

Abdominal puncture for the diagnosis of acute intrapentioned disease is done with the use of a spinal puncture needle and a 20 c cm syring. Ethyl chloride locally or novocain is employed for an esthesia. The skin is opened with a scaipel at a point on a level with or below the unbulicus and at either side of the midline. The needle is introduced perpendicularly and aspiration is attempted in several different directions. Only a few drops of

fluid may be obtained, but this is often sufficient for a diagnosis. The theoretical danger of penetrating aloop should not deter the surgeon from taking advantage of this procedure, but it is not safe in the subacute or chronic case in which a loop of bowel might be adherent A negative puncture has not been considered conclusive and if the symptoms justify surgical intervention such a finding has been disregarded. A positive puncture has prevented operation in a number of cases in which it would otherwise have been employed. A careful bacterial and cytological examination of the fluid obtained is as important as the finding of the fluid

In a group of traumatic cases the presence of blood or fluid as indicated by puncture was proved by subsequent laparotom. In a group of cases of pneumococcus and streptococcus peritomits the discovery of the organism on abdominal puncture prevented an unnecessary laparotom. The finding of fluid the color of beef pince and containing polynuclear leucocytes but no hacteria bas decided the diagnosis of acute pancreatitis and the withbolding of operation.

Ghose D M A Case of Persistent Hiccough Treated Successfully by Injections of Novocain into the Phrenic Nerve Indian M Ga- 19 6 ltt 124

In the case of a patient who was in a state of extreme prostration from hiccoughing for almost four months the author infiltrated the phrenc nerve with from 2 to 4 c cm of 1½ per cent novocain solution. The first injection made on only one side, caused transient pain in the shoulder and chest on that side. On the following day, 3 c cm of the novo cain solution was injected on the opposite side After three injections there was some improvement and after six injections the hiccough ceased completely. The technique of k noh was used.

JOHN A WOLFER M D

## GYNECOLOGY

#### UTERUS

Ulesco Stroganowa K. Endotheliomata of the Uterus (Die Endotheliome des Uterus) Arch f Gynaek 1925 exciv 802

The morphological and histogenetic characters tes of endotheliomata of the uterus are due to the origin of these tumors from the endothelial and adventural elements of the blood vessels. On the basis of studies of nine such tumors—three of the origin and six of the cervix—the author distinguishes endothelioma carcinomatodes aromatodes and sarcocarcinomatodes in addition to cases of excessive blood vessel development resulting in lympho or hamangio endotheliomata according to the vessel of a rigin.

As the literature does not report all epithelioma tous tumors they are perhaps more common than is generally supposed. To this group belong the tumors described by Fellaender as 'elefantiasis endometrii fibrosarcomatosi gigantocellulare and also others described as raint cell polymorpho.

cellular and botry oid sarcomata

In all of the cases studied by the author an undoubted relationship was apparent between the tumor elements and the vessels from whose endo theium or adventitus the tumor developed. In some of the cases the endotheliond character of the cells predominated so that the tumor had an epi thelial or carcinoma like character while in other the admixture of other forms which were more characteristic of connective tissue suggested a sarroma.

The power of the endothelial and adventitual cells to react to inflammatory stimulation in various forms was shown by an astonishing polymorphism of the tumor cells. Epitheliomata of the ceruit are characterized by the predomnance of large epithelioid cell forms which in addition to polymor phism are distinguished by very numerous mitotte figures. In these tumors there may be also small elements so farger than leucocytes or Jarge relongated multinuclear cells. The tumor itssue formed from the elements and their transitional forms is arranged in centers and columns sometimes in arranged in centers and columns sometimes in reticular foca and sometimes in larger masses penetrated by a network of thin walled blood vessels and capillaries.

In tumors of the corpus there are found besades cords of epithelowd and often multinuclear cells similar to those of tumors of the cervix cords of spindle and oval cells. These give the neoplasm more of a sarcomatous character but because of their undoubted origin from endothelial and adven tittal elements the tumors must be classed with the endotheliomate.

The frequently multinucleated and often very large cells found in endotheliomata also have their origin in endothelial and adventitial cells. Within the vessels they are formed either by mitotic or amitotic nuclear multiplication or by the syncytial confluence of endothelial cells a process in which leucocytes and the remains of cell nuclea and red blood cells are not infrequently surrounded. This content of blood corpuscle material explains the punk color of the gant cell like structures so formed a finding frequently mentioned by the author in his description of the different tumors. Sometimes the syncytial masses so formed show branches which retain the shape of the vessels.

The details of the descriptions cannot be given

in an abstract without the illustrations

In conclusion, the author cites a case in which

death occurred from peritonitis immediately after radium treatment Frescu (C)

Lynch F W The Treatment of Squamous Cell Epithelioma of the Cervix Surg Clin A 1m 1976 vi 333

In the authors opinion the ordinary panhys terectiony in the treatment of squamous cell carcinoma of the cervix is to be condemned. The radical dissection of Werthern is better to the beause of its technical difficulty and high primary more tality is not generally employed. Radium offers a much better chance of a five year cure than surgery or the cautery.

In cases in which the carcinoma is limited to the cervix and the operative risk seems good a pre liminary irradiation of about 3 000 mc hrs should be given and followed from two to four weeks label by a radical eccision. All other cases should be treated with radium alone. Some surgeons use radium alone in all cases but reports collected by the author indicate that when the condition is operable the nucleice of five year cure was about 50 per cent in cases treated surgically as compared with 36 per cent in those treated with radium alone.

I LOW AND BISHKON MD

Rud If A Histological Investigation of a Case of Cancer of the Cervix of the Uterus Cured Locally by Radium and X Ray Treatment Icle obst y gynec Scand 1925 19 66

The author reports the clinical course and autopsy findings in the case of a patient who was clinically cured of cancer of the cervix by radium and X ray treatment and died of an intercurrent disea e

Autopsy showed macroscopic healing of the process in the uterus vagina and left parametrium but remains of the tumor were found in the right parametrium On microscopic examination of the organs, cancer cells could not be demonstrated in the uterus, vagina, rectum, bludder left parametrium or left ovary

Remains of cancer tissue showing degenerative changes were still present in the right parametrium

and right ovary

The tissue treated by irradiation showed also an increase in the connective tissue the occurrence of hyaline areas and fibrinoid necrosis in the mucles and thickening and obliteration of vessels the volles of which showed hyaline and fibrin like tissue. The mucous membrane of the uterus and vagina in the neighborhood of the cancer site was atrophied.

Ward, G G and Farrar, L k P The Radium Treatment of Carcinoma Uterl Am J Obst & Gynec 19 6 to 430

The authors state that for the purposes of comparative study, a standardized simple classification of carcinoma of the uterus according to the extent of the disease and the same rules in estimating end results and percentages should be adopted by all claims.

A monthly follow up conducted by the surgeon in charge of the patient is of inestimable value for successful radium treatment. The details of technique are of importance. Over radiation is sep cailly to be avoided, and subsequent treatment should be based upon the reaction to the test dose of radium. In the nuthors' experience, repeated irradiations (three or more) have been of distinct value in certain advanced cases.

In ill classes of carcinoma of the servix radium is preferable to surgery. As life can be saved by radium in at least 50 per cent of the early cases of carcinoma of the cervix the education of the linity and general practitioners to seek an early diagnosis is imperative. Carcinoma of the fundus is best treated by surgery, but in many cases resort must be had to radium and roentgen ray therapy because the operative risk is high.

For satisfactory results it is unnecessary to use large amounts of radium. The value of roentgen ray therapy in carcinoma of the uterus is still undetermined. Every case should be treated according to its particular requirements.

E L CORNELL M D

Voltz F. Carcinoma of the Cervix Treated Exclusively by Irridiation (Die ausschlessliche Strahlenbehandlung des Collum Carcinoms) Klin Wehnschr. 19 5 iv 1396

On the basis of material from the Munich G ne cological Clinic during the years 1972 to 1979 it is shown that irradiation of carcinoma of the uterus is as effective as operative treatment and sometimes even more effective. To the cases in which a five year cure hid been obtuined up to the year 1918 which have been reported previously are added the cases with a five year cure which were treated during the years 1918 and 1919.

There were 313 cases of carcinoma of the cervix Of these 271 were treated and forty two were unsuitable for treatment Since 1918, radium treatment has been combined with roentgen treatment In the total number of cases the incidence of cure was 12 4 per cent, while in those remaining after the subtraction of the untreated cases it was 143 per cent. The results in the four groups were the following

Group 1, thirty seven operable cases, a cure in sixteen (432 per cent) Group 2, seventy four borderline cases, a cure in fifteen (40 - per cent) Group 3 100 inoperable cases a cure in eight (75 per cent) and Group 4 innet; six unsuitable cases no cures in the fifty four which were treated

In 755 cases of carcinoma of the cervix traded in 13 2 per cent and a five year cure in 43 6 per cent of those which were operable. In the total number of cases of carcinoma of the cervix treated by irradiation which have been reported in the literature—1 732—1012 estimates that an absolute cure was obtained in 16 9 per cent and a relative cure in 47 6 per cent of those which were operable. In contrast to this, he estimates for 2,185 cases of carcinoma of the cervix an absolute operative cure of 26 per cent and a cure in a total of 30 per cent of the cases operated upon

Accordingly the figure for absolute cure by 1rra dation is lower but this is explained by the fact that the total material was poorer since in the older operative cases the average operability was 64 per cent whereas in the irradiated cases it was only 170 3 per cent. The poorer quality of the material is explained by the fact that many cases which pre viously were regarded as beyond treatment were sent to the Clinic for irradiation.

Worthy of note is the five year cure obtained in or per cent of 1738 cross of inoperable carcinoma of the cervix collected by Voltz from the literature which were treated by irradiation. Attention is called also to the so called optimal cure figure that is the result obtained when the patient submitted to a complete course of treatment. In Group 1 this was 748 per cent in Group 2 41° per cent, and in Group 3 13 1 per cent.

The author believes that by further development in the technique and methods of irridiation the results may be further improved particularly by irradiation of the hypophysis, exact dosage, and the reduction of irradiation sickness by the use of irradiation cabinets Marking (C)

## ADNEXAL AND PERIUTERINE CONDITIONS

Pettinari V The Ovarian Graft and Its Application to Treatment in Clinical Cases (La greffe ovarienne et ses applications à la therapie humaine)

Ginée et obst 1926 un 19

Experiments performed by the author on 33animals of various species showed that ovarian us sue trinsplanted in animals of the same species can he made to live elaborate the normal internal secretion and assume the germinal function. The likelihood of a successful take increases with descent

in the biological scale

The normal histological condition of some of the authors grafts is shown in illustrations. Follocle formation and the presence of corpora lutea were noted. The formation of corpora lutea was seen chiefly in the autoplastic grafts whereas in hetero plastic grafts follocle atresia was the rule. In the

homoplastic type the tenden y was in the balance.
The ovarian secretion which exerts the chief in fluen e on female morphology and physiology cannot be replaced by other internal secretions, but can be

resupplied by grafted tissue

The relation of the ovarian secretion to the various minary uterine and other cycles has not yet been established but it is known that ovarian secretion is necessary for the maintenance of these cycles. Nervous disorders influence sexual function by modifying the endocrine action of the ovaries.

A successful graft will prevent the appearance of the usual effects of castration and will carry the organism to its complete sexual development. In old animals, it causes a profound psychic and somatic

change

In the transplantation of ovarian issue in clinical cases the receptor is too often in poor general condition the area in which the graft is placed is decread or unsuitable or the grafted tissue is unsaits factors.

The following conditions may be favorably af fected by an ovarian graft (1) infantilism of the genital organs (2) the pathological menopause due to castration (3) divsoverism and ovarian insufficiency (4) ovarian steribit (6) plunglandular endo crine syndromes and (6) certain mental affections

In the human female autoplastic transplants give the best results but homoplastic grafts have occaionally proved satisfactory. Grafts are used to stimulate impotent ovarian tissue as well as to re

place removed or destroyed theue

Ovarian grafts have great therapeutic possibil ities and with increased knowledge and improve ment in technique their use will become more general in the treatment of conditions not amenable to other ovarian therapy. At present they should be used with discretion

GOODRICH C SCHAUFFLER M D

Bolling R W An Ovarian Cyst Free in the Peri toneal Cavity of Three Months Old Infant inn Surg 1926 Ixxxiii 546

The author reports the case of an infant 3 months ofd who had vomited and lost weight since birth In the right lower quadrant of the abdomen there was an elastic mass about the size of a golf half. At operation the mass was easily delivered and rolled out of the wound as it had no attachment. Examination revealed a normal uterus with a normal ovary and tube in the left side but no ovary or tube on the right side. The mass was a multiplocular ovarian cyst

which had become separated from its attachment as the result of torsion The patient recovered I EDWARD BISHAOW M D

Shaw W Krukenberg Tumors of the Ovaries

Proc Rov Soc Med Land 1926 vix Sect Obst &
Gyaxe 49

krukenberg tumors of the ovary were first described by krukenberg in 1896. They are bilateral tumors which may occur at any age. Their growth is slow and accompanied by ascites. They retain the normal shape of the ovaries and have a smooth

Instologically, the stroma consists of fibrilla in the form of spindles with oval nuclei densely packed together. Also predominating are round or oval cells with bright translucent homogeneous probplasm and nucley pushed to one pole and flattened out against the cell membrane giving a signet ring appearance. Krukenberg believed the tumors to be fibrosarcomatous in type. Later other investi actors found them associated with carcinoma of the

stomach. The author reports five cases.

In view of the fact that in the vast majority of the reported cases carcinoma was discovered in the stomach it is probable that the ovarian tumors are secondary carcinomata rather than primary fibro sarcomata.

EDWARD BERSLOW MD

Princeteau and Magnan Simultaneous Rupture of Both Fallopian Tubes (Rupture bilatérale simultanée des deux trompes utérines) Bull Soc d obst et de gynte de Par 1926 xv 55

The patient whose case is reported was a woman 22 years of age who was admitted to the hospital on Notember 7 1925 complaining of pain in the lower part of the abdomen and a bloody a yanal dis charge. She had had one pregnant, sutteen months previously. Her last regular mentatual period began July 20 1925. In the evening of that day she had an attack, of slant pain in the lower part of the abdoment of the state of the

On the patients admission to the hospital her temperature was 37 o degrees C and her pulse no Examination revealed a chocolate colored vaginal discharge tenderness in the loner abdomen and a mass in each iliac loss. The cervir was soft and patillous A diagnosis of ectopic pregnancy on the left side with detroflerion of the uterus was made

Operation revealed on the right side of the pelvis a blush mass the size of two first and on the left side a swollen fallopan tube with a perforation about z cm in diameter from which blood was escaping. The mass on the right side was appared a harmatocel. It could not be removed completely a harmatocel it could not be removed completely as the performed as alternative from the completely and a subtotal hysterectomy were refromed.

Sets August 19 Hernel Sets

#### EXTERNAL GENITALIA

Watson, B P A Technique for the Operative Treatment of Rectocele Edinburgh II J 1926 n s xxxIII Edinburgh Obst Soc 61

The essential feature of Watson's operation for rectocele is the isolation and repair of the special fasciomuscular sheet which supports the rectum and in all cases of rectocele is deficient. This rectal fascia is a broad strong sheet of musculofascial tissue in close relation to and supporting the an tenor rectal wall and lying deep to the levator an muscle. It is in intimate relation to the posterior vaginal will in its middle third and becomes continuous at the sides of the cervix with the fascial layer which is the main support of the bladder Rectocele is the result of injury to this fascia

In the operation described an incision is made through the mucocutaneous juncture round the poste

mor part of the vulvar orifice. In the elevation of the flap from the posterior vaginal wall blunt scissors are used Each side is opened and held up by for ceps so that the median scar can be seen and can be dissected away without injury to the rectum Two bands are found attached to the flap which do not wipe away easily and represent the torn rectal fascia Below this and on each side is the mass of levator muscles and fascia which, in the usual opera tion are joined together by interrupted sutures as a rule under considerable tension. In the author's operation a deep bite is taken into the fascial sheath above the upper margin of the rectocele on each side and when this suture is tied the fascia is over lapped above the rectum. A continuous suture is usually employed

In addition to curing the rectocele, the fascial umon restores the support of the pelvic floor
HARRY W I INA, M D

# OBSTETRICS

#### PREGNANCY AND ITS COMPLICATIONS

Kupfer M Ovarian Pregnancy Following Opera tion for a Tubai Pregnancy on the Same Side (Ovarnalgravitaet nach gleichseitiger openenter Elleiterschwangerschaft) Zentrolbi f Gynack 1024 Ult 224!

Kupfer reports the case of a 26 year old woman who had been operated upon for tubal pregnancy on the left sude and upon whom he operated for a suspected extra uterine pregnancy. At the second operation a large quantity of dark blood was found in the abdominal cavity. The left ovary had been transformed into a tumor the size of an egg. The stump of the left tube which was r cm. long was not connected with the ovary. The right adnexa were normal Extirpation of the left ovary was followed by uneventful recovery.

The specimen showed evidence of a fetal sac No histological examination was made. The author assumes that there was an external migration of the spermatozoa but admits that patency of the stump of the left tube could not be ruled out definitely. Yow WEDERER (G)

Von Bodó R and Liebmann S Investigations Regarding the Calcium Ion Concentration of the Blood in Puerperal Eclampsia (Untersu chungen ueber die Calciumionenkonzentration des Blutes bei puerperaler Eklampsie) Arch f exper Path u Pharmakol 1935 etx 178

The authors examined the blood serum of women with eclampia for ionized calcium according Trendelenburg's method of perfusing the frog's heart. These studies followed those of Lamers Russmann and Achter who found the calcium content of the blood lowered in eclampia and attributed the convulsions to a calcium hop soma.

In the authors investigations sera which had been kept on ice for twenty four hours were tested on the isolated frog a bear. If a reduction of the contractions occurred further tests were made to determine whether the addition of calcium ions would prevent such a reduction. The serum first tested was obtained from thyrodectomized dogs in which tetany had been produced by the removal of the parathyroids.

If was found that the normal contractions of the forg's heart perfused first with Ringer's solution were decreased when the serum of the parathy rodectomized dogs was added whereas when cal cum none were added to the serum (o'r calcium chloride solution with o'i fingm calcium chloride to x c'm of the tetany serum) the contractions re turned to normal

In experiments with the serum of normal pregnant women and women who had been recently delisted the contractions of the heart muscle remained normal and no decrease in the calcium content could be demonstrated. Neither was a cal cum hip so iona found in the serum of nine celamptic women whose serum had as little effect on the frog heart as that of normal pregnant and purepreal women. Therefore a decrease in the free calcium is non in the holod which might be responsible for the convulsions could not the demonstrated in puer peral eclampia.

Lindquist S Retention for Nearly Twelve Months of a Mature Fetus in a Uterus Which Is the Seat of a New Pregnancy (Third Month) Acta obst et space Scand 1925 to 187

The patient whose case is reported was a para with a normal history who during her fifth pregnancy felt fetal movements after the fifth month hat cased to feel them during the ninth month When she was first seen by the author she had not felt fetal movements for eight days. She refused intervention

When she returned two months later the fundus seemed smaller and the upper right portion of the uterus seemed to be divided from the lower portion by a sulcus. She again left the service against advice and was not seen again until twenty months from the onset of the pregnancy. On her return she stated that she had had one normal mentrual period six months previously and another four months previously and another four months previously.

Laparotomy revealed a uterus with two parts having no demonstrable connection. The upper and larger part contained a macerated and apparently full term fetus and the lower and smaller portion a fetus about 14 cm long.

GOODRICH C SCHAUFFLER M D

Commandeur Eparvier and Milchon Cancer of the Cetrus and Fregnancy Creasrean Sec tion Porro a Amputation Radium Therapy (Cancer du col utein et grossesse césarienae am putation de Porro curiethérapie) Buill Soc d'obst et de grate de Par 1926 xv 59

The patient whose case is reported was a 40-year old woman who entered the obstetned clime at Lyons in the seventh month of pregnancy with a cancer of the cervit. Examination revealed considerable hypertrophy of the cervit and the exploring fingers became shood tinged. There was a slight industation in the right vaginal cul de sac.

Three weeks after the patient's admission to the hospital she began to lose blood. During the night of August ar she had a vaginal hemorrhage. Fol lowing a classical existence section in which a living female infant was delivered Porro's amputation.

was done immediately and the abdominal wall closed. The postoperative course was without incident

Infeen days after the operation the cervix was dilated and two tubes of bromide of radium of 50 mgm each were inserted from the abdominal opening. In the pericervical vaginal site, three tubes of 25 mgm were placed in a circular drain around the cervix.

Three weeks after the application of the radium, examination showed complete disappearance of the cervical tumor and only slight induration in the

anterior cul de sac

No mention is made of a microscopic examination of the tumor Salvatore in Palma M D

Michel Fruhinsholz and Mathieu Cancer of the Cervix and Pregnancy Hysterectom, in the Fourth Month End Result (Cancer du col et grossesse hystérectomic au 4 emois résultat élogné) Bull Soe d'obst été graté de Par 1926, xv 106

The case reported by the authors was that of a woman 40 years old who bad had four children, all of whom died shortly after birth On July 25, 1921 when the patient was in the fourth month of preg nancy she entered the bospital on account of marked leucorrhea A diagnosis of malignant new growth of the cervit was mide and a Wetthenin hysterectomy performed The parametrium was not in vaded

Convalescence from this operation was normal, and the patient left the bospital a month later in excellent condition. On December 28, 1921 she returned on account of a bloody vaginal discharge Examination then revealed an indurated mass at the end of the vagina. Curettage of this mass was followed by the application of radium.

On April 10 1925 the patient again returned to the hospital with a bloody vaginal discharge. Examination revealed a small crater like induration at the end of the vaginal stump. A second applica

tion of radium was given

In December, 1925, four years and four months after the hysterectom, the patient is in excellent condition. The vagina is smooth and shows no ulcerations. A small nodule the size of a pea in the posterior part of the vagina the authors helieve is a scar.

No mention is made of a microscopic examination of the neoplasm Salvatore of Palma, M D

#### LABOR AND ITS COMPLICATIONS

Esch P The Occurrence of Brain Pressure and Its Effect upon the Fetal Heart Sounds Durling Labor (Ueber das Zustandekommen und den Einfuss des Hirndrucks auf das Verhalten der kindlichen Herstoene wachrend der Geburt) Mondiszicht f Geburtsh u Gynack 1925 kux 308

There are two types of brain pressure One is the acute type which is due mainly to mechanical factors such as pressure or a blow upon the hrain and may occur during operative delivery or the sudden descent of the infant through a narrow pelvis. The other is a gradually developing type which is due to a disturbance in the circulation of the blood such as venous stasis or obstruction of the arterial supply which causes cellular injury

The acceleration of the heart sounds resulting from cerebral pressure the author attributes chiefly to vagus irritation rather than to a carbon diovide overload such as occurs in general asphyia. Where as in acute cerebral pressure a rapid recovery of the heart sounds is to be expected the author behaves that when cerebral pressure is manifest an attempt should be made to terminate the labor just as in cases of slowing of the heart due to an overload of carbon dioxide.

However if the prerequisites for a forceps delivery have not been met, there is danger that a forced delivery may cause an increase in the cerebral pressure which will prove serious for the child Consequently the danger of waiting until the indications for a forceps operation become apparent seems to be less than that of forcibly ending the labor at once

Polak J O The Technique of Transperitoneal Caesarean Section Surg, Gynec & Obst, 19 6, vin 551

To decrease the danger of casarean section, pelvic disproportion or fetal malposition must be recog mized either before of immediately at the beginning of labor. In the horderline case with but slight dis proportion and only slight deflevion of the vertex, good obstetrical judgment is particularly necessary

Since over 80 per cent of labors in cases of border line contraction terminate spontaneously or can be terminated with the aid of low forceps, it is well in these cases to allow the woman to bave a moderate test of labor. This is hest given in bed, the patient's strength being conserved by rest, the free use of morphine and scopolamine, forced feeding, and the forced ingestion of fluids. During this preliminary test the character of the contractions, the contour of the uterus, the pulse, the temperature the progress of descent, and the amount of dilatation should be carefully checked

If there is no evidence of advance or no apparent increase in the dilatation of the cervit, a careful vaginal examination with the bladder empty should be done and an attempt made to crowd the perfectly flered head into the brim. It there is much over riding or if the consistency of the head and sutures show that the head cannot be crowded in, assarean section is indicated.

Prior to the induction of annesthesia in such a case the patient should be given an intravenous in jection of 250 c cm of a 10 per cent glucose solution. In the pre-operative preparation of the genital organs, 102 of a 4 per cent solution of mercuro chrone should be slowly injected into the vagina while the hips are elevated on a sterile douche pain. This should be done at least thirty minutes before

the operation and is necessary particularly when the membranes are ruptured

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The operation is described in detail and the essentials in the after treatment are discussed

Of chest supportance in the technique are (1) the low abdomind incision (a) the placing of the traction suture in the uterus at the upper limit of the abdominal incision so that when held tast it will completely close the wound (3) the separation of the peritonical flap including the bladdier (a) the delivery of the fetus by the h ad (5) spontaneous separation of the placenta (6) the packing of the uterus with washed nodoform gauze to stimulate its contraction and retraction (this gauze is usually found in the sagina at the end of twenty four hours) and (7) complete occlusion of the uterus wound by suturing the bladder reflevion over it to prevent mentional leakage and intestinal adhesions.

Roland & Crox M D

#### PHERPERIUM AND ITS COMPLICATIONS

Kirstein A New Procedure for the Treatment of Severe Puerperal Infection (Ein neues Verfahren zur Behandlung schwerer puerperaler Infektion) irch f Gynack 1025 CVV 300

The author's method of treating severe puerpost infection is based upon the continuous intravenous infusion of physiological softum chloride solution used by Laewen with good results in pertionist. Since the strengthen the heart musicle at the same time glucose solution is injected intravenously according to the recommendation of Buedingen.

Kirstein uses only a 10 per cent glucose solution He injects 2 or 3 liters intravenously every day According to the requirements of the case stro phynthin or adrenalin 12 added to the solution

The result of this continuous intravenous infusion may be shown graphically be curves. It consists in a fullness of the circulation which accelerates metabolism. The acceleration may be further in creased by the induction of sweating. There is also an increased dutiers which increases the bactericidal power of the blood. Three hiers of a to per cent glucose solution represent 1500 calonies. Therefore like protein bodies glucose acts as a stimulant.

Fuerst W. Rectal and Vaginal Examinations and the Prophylaxis of Puerperal Infections (De Bedeutung der rectalen und vaginalen Untersu chungsmethole fuer die i rophylave puerperaler Wundinfektionen) irch f Gynach 1935 crvs 30;

In order to determine whether rectal examination in the climal conduct of labor the author reviewed 4 ory cases. Up to one hour of labor and from one to that the respect of the bag of waters the temperature for the reputer of the bag of waters the temperature for the reputer of the bag of waters the temperature for the reputer of the bag of waters the temperature for the property of the property

Fuerst concludes from this study that the vagual examination should be used only when it is most definitely indicated and that for the instruction of students and midwives the rectal examination is the method of choice

HERSCHY (G)

Bovin E A Case of Puerperal Streptococcal Septicernia with Sequestrating Ostelits of the Right Public Bone Acts obst. et gance Scand 1925 pv 183

A woman 42 years of age had a difficult forcess delivery resulting in the death of the child tears in the vagina and cervix and streptococcal septication of the series of the series of the complaint of the end of about six months she complained of pain in the right leg. A vear later this pain was still very severe and caused disability. An orthopedal treated the patient for high disease but the disability continued. Two years after the patient delivery, a sixing was discovered which opined into the vagina opposite the right pubs, and drained foul pus. Yay examination disclosed a sequestrating outside of the right pubs conduction of the right pubs

The author states that the lesion in the public bone might have been secondary to an injury of the symphysis caused by the forceps delivery but he believes it more probable that it was due to direct extension to the bone of infection from a vagina tear Googneige C Schutzers VID

# GENITO-URINARY SURGERY

## ADRENAL, KIDNEY, AND URETER

Fuchs F Studies of the Inner Topography of the Kidney (Untersuchungen ueber die mnere Topographie der Niere) Zischr f urol Chir 19, xvii 164

This is a study of importance to every surgeon operating on the kidney. The possibility today not only of diagnosing the presence of a stone in the kidney but also of locating it exactly becomes of practical value only when the stone can be removed by the best route as determined anatomically. To determine which route is best the author studied numerous corrosion preparations of the arteries veins and pelves of injected kidneys and the roent genograms of kidneys filled with contrast material. The most important findings were the following

The interlobar arteries branching off from the main arter, course along in the renal sinus nearly parallel with the cityces. On entering the sinus these vessels sometimes cross it at an acute angle corresponding to the spaces between the calyces one plane I) ing immediately, ventral and the other dorsal to the pelvis. At a point about ½ cm before their entrance into the renal parenchyma vessels from the ventral group of branches pass dorsally through the calyx interstices and then course along with the dorsal group. Except in the parenchyma it is rate that the interlobar arteries of the dorsal group to the ventral group.

Therefore if trusting to the independence of the anterior vascular region from the posterior vascular region the surgeon uses the autopsy or the Zondek incision cutting through into the calyces he will invariably enter a zone about 1 cm thick in which there is an overlapping of both vascular regions and vessels of the caliber of the interlobar arteries will be opened. The dividing line hetween the terminal branches of the anterior and posterior interlohar arteries lies as Zondek bas stated, nearly always from 1/2 to 3/4 cm hehind the line of convexity of the kidney However in the author's opinion this line is of secondary importance hecause the terminal branches are of small caliber Arteries of this caliber are cut in every incision into the parenchyma and their injury is of much less importance than the injury of an interlobar artery

There is no constant relationship hetween the form or type of the renal pelvis and the manner in which the blood vessels hranch. The hipartite renal pelvis demonstrated pyelographically does not hive as might be assumed a separate crainal and caudal vascular region. The space hetween the two main pelves harbors like a small calivx interspace interlohar vessels which piss from the ventral to the dorsal group frequently in fact it is the chief

ventral branch which passes dorsally in the large cally interspace. Therefore when the bipartite pelvis is approached from the convexity of the lidney this main branch may be injured.

From these anatomical findings it appears that a stone revealed by pyclogram or by fluoroscopic crammation of the luxated Lidney is approached hest not by an incision on the convexity of the kidney but hy a radial incision made on the dorsal or ventral surface

The main facts stated concerning the interlobar arteries apply also to the veins. A finding of importance with regard to hemorrhage due to a tumor and the location of the source of the bleeding in so called essential hamorrhage is the fact that the forms calicis is surrounded for three fourths of its circumference by a network of veins of the caliber of the interlobar veins. This network lies directly on the wall of the cally without any interposed sinus fat Therefore hæmorrbages from these veins enter not the fatty tissue of the sinus but the caly's This fact explains also why fluids injected into the renal pelvis not infrequently enter the venous System The fornix calicis must be regarded as an area which is predisposed to venous hamorrhages into the renal pelvis PFLAUMER (Z)

Pfiaumer E The Physiology of the Renal Calyces and the Renal Pelvis (Beobachtungen zur Phy siologie der Nierenkelche und des Nierenbeckens) Verhandl d Deutsch Gtsellich f Urol 19 5 p 62

The excretion of urine from the renal pelvis is not continuous but intermittent. Continuous drop ping of urine indicates dilatation and stass of the uriter or renal pelvis. Immediately, after a eries of drops the renal pelvis is not empty and if the end of the cathleter lies in a cally instead of the renal pelvis not a single drop of urine can be expressed or aspirated. Urine can be obtained by retrograde cathleteration only after from twenty to sixty seconds. The urine is therefore poured intermittently from the papille into the renal cally, and in the intervals the cally a is closed against the pelvis.

Them these facts the author assumes that certain anune conditions are caused by spasm of the papillari sphiniters. The failure of the periodic closure of the papilla due to tass in the renal pelvis is increased (increased infilitation) and the pressure exerted upon the unne in the medullary substance is diminished (diminition of resorption). This explains the poliviria occurring in prostatic conditions and may possibly explain also certain deviations in the urnary secretion which are found to occur in tuberculosis of the tips of the handlifty.

SCHEELE (Z)

limit of safety for a complete prostatectomy was found to be 50 mgm of non proten natrogen and 3 5 mgm of uric acid per 100 c cm. Expenence has shown that if the values of these constituents are higher its advisable to perform a preliminary suprapubic cystotomy and delay the enucleation until the values fall within the limits of safety

The blood urea content is much less rehable than the non protein introgen and unc acid contents. A high blood urea content must always be regarded as a serious sign but reference to the tables presented by the authors shows that a low urea content can not always be regarded as an indication of normal

kidney function
In conclusion the authors state that laboratory
findings should never be relied upon alone but
should always be considered in their relation to
the patient s clinical state

JOHN G CHEETHAM MD

Rolnick H C Catheterization of the Ejaculatory Ducts Surg Greet & Obst 1926 xln 667

In an examination of twenty nine autopsy specimens of the prostate posterior urethra ejaculatory ducts seminal vesciles vas deferens and testicles the author found that the urethral onfices of the ejaculatory ducts are often difficult to locate because of the fact that they open on the margins of or within the utricle

When the seminal vesicles were injected through the ejaculatory duets the fluid entered the vas deferens in only eight of the fifty eight specimens. Therefore medication of the seminal vesicles through the ejaculatory ducts seldom accomplishes its pur pose since the ampulla of the vas deferens which is always involved in the pathological process can be injected in only a limited number of cases.

J SYDNEY RITTER M D

Retterer E The Evolution of the Testicles of the Buil After Crushing of the vas Deferens (Evo lution du testicule du taureau après écrasement du canal déférent) J d'urol méd et chir 1926 vu 14

The peasants of the Vosges use bulls for farm work Up to the age of 2 years these animals are docule but after that they become violent and dangerous prevent this change the peasants cru b the vas deferens by pa sing it through a groove in a cylinder placing a wedge of wood over it in the groove and surking the wedge several times with a heavy ham

The entire obliteration of the vas deferens cau es the epithelial lining of the seminferous tubules to be come transformed slowly into reticular tissue. This process is not an atrophy but a simple hypotrophy due to a change in structure. Sexual libido and potentia coeund decrease and finally disappear al together. They can be reestablished hy means of testicle grafts.

These facts indicate that the epithelium of the seminiferous tubules is the source of the internal secretion of the testicle Audrest G Morgan M D

# MISCELLANEOUS

Kuemmell H Sr Hæmorrhages from the Uri nary Organs (Die Blutungen der Harnorgane) Deutsche Zischr f Chir 1925 excii 143

In cases of hamorrhage from the urinary tract certain conclusions can be drawn as to the focus of the disease from the nature of the hamorrhage

r If the blood flows spontaneously from the urethra without urination the source of the hæmor rhage is in the urethra

2 If clear urine is passed at first and blood appears only at the end of urination the lesion is in the bladder

3 When the urine is uniformly bloody the lesion may be in the bladder or the upper part of the urinary tract. Typical of lesions in the upper urinary tract are worm shaped coagula formed in the ureter.

In cases of unexplained hæmorrhage from the

urethra urethroscopy offers information

In cases of bladder hamorrhage it is possible to determine the nature and extent of the hamorrhage The most important causes of by cystoscopy bladder hæmorrhage are hypertrophy of the pros tuberculosis papilloma and carcinoma Varicosities of the bladder are very rarely the source of hamorrhage \esical calculi and foreign bodies usually offer no diagnostic difficulties cystitis especially of the ulcerating and necrotic forms may give rise to severe hæmorrhages Tuber culosis of the bladder is always secondary to pri mary tuberculosis of the kidney Injuries of the bladder are usually associated with characteristic symptoms such as severe pain excruciating stran gury and mability to urinate. In ruptures of the bladder only small amounts of bloody urine are obtained even with a catheter This so called bloody

In cases of homorrhage from the upper unnary tract the diagnoss is more difficult but eatheteriza iton of the ureties roentgenography and especially pyelography and tests of kidney function will reveal the nature of the condition. In cases of renal tumors the diagnosis is sometimes difficult

particularly in the early stages

anuria is a positive sign of rupture

Massive hamorrhages may be caused also by polycystic degeneration of the kidneys

sury cystic degeneration of the kidneys

The differentiation between tumor of the renal pelvis and tumor of the ureter is facilitated by pyelography which reveals form changes and filling defects. The results of operation on tumors of the renal pelvis and ureter are favorable.

In tuberculosis of the kidney the initial hamor hage is often the first sign. Tuberculosis should be suspected in every case of cystris which is refractory to treatment and in which the unner is acid acontains leucocytes. The diagnosis is confirmed by the demonstration of tubercle bacilh hy microscopic examination cultures and animal inoculations. Tuberculosis of the kidney is almost always a unitateral desease which infects the bladder secondarily lateral desease which infects the bladder secondarily

The treatment is nephrectomy performed as soon as possible Treatment with tuberculin has so far failed to cure

In cases of hæmorrhage due to calculi the diag

nosis is rendered easy by the X ray

The diagnosis of renal injury is usually not difficult but as the severity of the injury cannot be judged from the amount of hæmorrhage exposure of the kidney resection of pieces of kidney which have been torn off union by suture or removal of the entire torn organ should be done early

In conclusion the author discusses the difficulties in the differential diagnosis of renal hæmorrhages from nephritis and unknown causes Denks (Z)

Bazy P Horteloup & Resection of the Perineum for Complicated Gonorrheal Strictures (Résection du pénnee pour rétrécissements blenorra grques compliqués méthode d'Horteloup) J d'urel mêd et dur 1945 7x 353

Bazy reports the case of a man of 45 years upon whom he performed an internal urethrotomy twelve years ago. After that operation the scrotum became greatly enlarged and an indurated mass the size of a hen segg caused a profrusion of the perineum. At the second operation Bazy made a racket incision in the perineum by. Horteloup's method and removed the indurated tissue from around the urethra. A retention catheter was left in place for six days.

Brief notes are given also on a number of similar cases in which gonorrheal stricture of the membranous part of the urethra was complicated by

induration or fistula

The chief requirement in the operation is the removal of all sclerosed tissue. The incision must be carried into tissue that is normal or the scar will retract. Sclerosis is produced by attenuated infection and if an incision is made in the midst of sclerosed tissue the infection may be spread. In many cases the operation can be limited to a perior urethrectomy by simply removing sclerosed tissue the urethrat then remains supple and can be dilated that the scheme of the indurated tissue is

removed. In other cases it may be necessary to resect from 2 to 5 cm of the urethra. Sometimes the entire circumference of the urethra must be resected, while in other cases there may be a band of normal mucous membrane on the upper surface which sbould be spared. If the distance between the two ends of the urethra is too great for suturing the ends may be brought closer together by threads. The urethra must be carefully, discetted from the sclerosed tissue. Only sclerosed tissue need be removed even considerable exdema of the sur rounding tissue will subside when the pressure of the induration is removed.

Horteloup believes that the wound need not be sutured but may be left to close spontaneously over a retention catheter Bazy sutures the wound but like Horteloup does not find it necessary to remove the urine by suprapubic incision. It is well to leave a retention catheter in place for several days to prevent the entrance of urine into the tis sues through a possible minute opening in the urethra. In cases of traumatic stricture in which there is no indurated tissue and it is practically certain that an exact union of the two ends of the urethra can be brought about, preliminary drain age of the urine through a syprapubic incision is of 1 advantage Bazy uses for internal urethrotomy a special instrument of his own by which three in cisions may be made one on the left inferolateral surface of the urathra one on the right inferolateral surface and one on the upper surface -and incision can be limited to the strictured area. Sometimes when there are strictures of other parts of the urethri the perineal or scrotal periurethrectomy should be supplemented by internal urethrotomy of the constricted parts

Some surgeons maintain that stricture of the membranous part of the urchira does not result from gonorthea but Bazy and Decloux have demonstrated such strictures by macroscopic and microscopic examination. They admit however, that they may be only prolongations of a stricture of the premembranous or antenor urchira.

AUDRLY G MORGAN M D

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

#### CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS, ETC

Abramowa A Exostosis Bursata (Zur Frage der Exostosis bursata) Zentralbi f Chir 1925 lii 2649

The author briefly reviews the theories that have been advanced with regard to the pathogenesis of exostosis bursata and then discusses the treatment especially the surgical treatment employed for this

condition

Exostosis bursata is a benign tumor that arises from the epiphyseal portion of the bone. It consists of bone and cartilarinous tissue covered by a

connective tissue capsule

It occurs most frequently on the femur shoulder, law and phalanges and is found more rarely on the tibia clavicle pelvis ribs vertebræ and other hones

Abramowa reports an instructive case discussing the anatomicopathological and V ray findings and the treatment. This case is of special interest because free bodies were found in the capsule STROMMAN (Z)

Cokkalls P Dupuytren's Contracture of the Palmar and Plantar Aponeuroses (Dupuy trensche Contractur der Palmar und Plantar aponeurose) Deutsche Zischr f Chir 1926 exciv 250

Numerous theories have been advanced as to the cause of Duputren's contracture but none has been entirely satisfactory. Krogus studied the hereditary aspects of the condition. In the early stages of development small muscles are found in the hands and feet instead of the connective ussue and fascial sheaths. Even in the newborn infant the palmar aponeurosis contains strated muscle elements. Therefore it must be regarded as a tendon structure of muscular origin. This theory is supported by the fact that similar changes are found also in the feet.

The author reports a case in which the contracture occurred first in both bands and a year later in the feet BRAUN (Z)

Wilensky A O and Samuels S S Osteomyelltls of the Sternum Ann Surg 1926 Ivxxii 200

This article reviews the literature of ostcomyelities of the sternum and summanzes the findings in twenty one cases previously reported. To these cases are added three new ones. The sternum is the site of the infection in about 0 003 per cent of cases.

The authors review the pathogenesis of the con dition and discuss its complications

of osteomyelitis

FREMONT A CHANDLER M D

Allson N and O Connor D S Cysts of the Semi lunar Cartilages Report of Two Cases of Cyst of the External Semilunar Cartilage and One Case of Cyst of the Internal Semilunar Car tillage Sure Gynce & Obst. 1026 May 2019

Allson and O Connor review the literature of cysts of the semilunar cartilages and add two cases of cysts of the internal semilunar and one case of cysts of the external semilunar. They summarize the characteristics of the e cases as follows

The cysts were multilocular
Except in one case they have no endothelial

lining
There was no endence of an inflammator

3 There was no evidence of an inflammatory reaction

4 They were filled with a mucoid substance 5 In all cases they were located in the mid por into of the semilunar cartilage on the external border 6 In one half of the cases there was a definite

history of injury
7 The cysts reached their maximum size quickly

and then remained stationary
8 Most of the patients were in the second decade
of life

o Spontaneous recovery never occurred Re currences sometimes developed when the entire cartilage was not removed

10 Pain was noted on complete extension and acute flexion of the knee

FREMONT A CHANDLER, M D

#### SURGERY OF THE BONES JOINTS MUSCLES TENDONS ETC

Jessen If The Importance of the Periosteum In the Origin and Treatment of Pseudarthroses (Ueber die Bedeutung des Lenosts bei der Entste hung und Behandlung der Pseudarthrosen) Arch f Min Chr 1025, ktxvit 280

The author discusses the theories of Lexer and Bier as to the pathogenesis of pseudarthrosis. He is michined to accept the viewpoint of Lexer regarding the great importance of the persosteum and its noursiment in the formation of callus. He accepts also the theory of Sudeck concerning the importance of the dead spaces. The trauma producing the fracture causes also spaces in the soft issues which the surrounding muscles cannot fill. Blood gathers in these spaces and the formation of callus will be the more extensive the larger the dead spaces providing they are lined with sufficient periodicular the providers of the prosecution of the surrounding muscles cannot fall the providing they are lined with sufficient periodicular the providing they are lined with sufficient periodicular them.

Stripping of the periosteum from the hones is not in itself injunous but stripping of the musculature from the periosteum greatly hinders hony healing. The tendency of the callus to extend depends not

on unknown hormonal stimul as Bier thinks, but upon the filing in of the dead spaces by new hone, as suggested by Sudeck. Moreover, the formation of parosteal callus depends, not upon metaplasia, but upon insplaced penosieum. The mystery of traumatic my ositis ossificans is similarly cleared up

The practical results of Sudeck's very simple periosteal theory are illustrated by several successful operations for pseudarthrosis. These operations were divided into three parts replacement of the fracture ends, joining of the fracture ends, and the replacement of the periosteum. The third part is of special interest hecause of the use of Sudeck's method of transplanting the periosteum which consists in culting it circularly and plating it, ito gether with its muscular attachments, over the site of the fracture. The good results of this procedure are evident in the roentgenograms. Bonn (Z)

Naervl E J Contributions on the Regeneration of Tendons and the Treatment of Tendon Ruptures Particularly in the Region of the Synovial Sheaths Acta chrung Scand, 1926 lt x

After tenorrhaphy the ends of the tendon are united by granulation itsuse formed by the con nective tissue of the external and internal peritenon and the tissues surrounding the tendon Tenany newsures are to connective tissue outside the tendon forms more of the granulation tissue between the ends than the peritenon and is therefore of more importance for the healing of the tendon wound

In the endothelum covered sheath of the tendon the pentenon grows over the ends of the tendon forming a kind of amputation stump which does not unite But if sutures are passed through the cut surface, granulation tissue is formed from the pentenon dong and around them and this is later transformed into a tendon like tissue uniting the ends Therefore the sutures used by Wilms, Lange and Frisch are more appropriate than those used by Dreyer, Woelfler Trika and Schuessler which avoid the cut surface

The synovial fluid does not affect the regeneration of the tendon disadvantageously nor check it. The form and the structure of the creatry of the tendon is consequently quite the same within and outside of the sheath of the tendon.

For the restoration of function it is necessary to spare the sheath of the tendon in order to facilitate the gliding movement and to keep the tendon in order to restrict the correct position. Only by regular exercises without immobilization is it possible to prevent afthe sions of the tendon and, in cases of ruptured flexor tendons, to obtain the best possible functional results.

Abbott L C and Jostes F A A Simple Method for the Correction of Delormity in Bony Anhylosis of the Hip Joint Surg Genee & Obst 19 6 th 274

For the correction of deformity in ankylosis of the hip the authors describe a procedure which overcomes many of the difficulties associated with immediate correction by osteotomy

A subtrochanteric osteotomy is done and the limb fixed in the position of deformity by traction with a Thomas splint Gradual correction is secured by moulding of the callus caused by changing the

hy moulding of the callus caused by changing the position of the extremity

A transverse osteotomy is performed through an incision separating the tensor fasciæ femoris and the

A transverse osteotomy is performed through an inision separating the tensor fasciae femons and the sartorius muscles and exposing the femors muscles. The wound is then closed anatomically. After the operation the patient is placed on a gas pipe bed frame of ingenious design and a Thomas splint is applied in the position of deformit, the traction on the leg being maintained. This is left in place for from four to five weeks or until abundant new callus is shown by the X ray. Gradual correction is then secured by bringing the traction splint to the desired position.

The time necessary to correct the deformity is about four weeks. The corrected position is main tained until consolidation of the callus occurs. During this slow manipulation the pelvis is controlled hy holding the sound leg fixed at the hip with the knee extended the reverse of the Thomas test for hip flexion. During the period of consolidation of the callus the thigh and calf are massaged When the patient becomes ambulatory, a Thomas calpier spint is worn for several month; so wor for several months.

The authors have used this method in four cases, which they report in detail

FREMONT A CHANDLER M D

# FRACTURES AND DISLOCATIONS

Thomas T T Habitual or Recurrent Dislocation of the Shoulder Med J & Rec 1926 cvvii 145

A typical subarachnoid dislocation by hyperab duction was first produced in the cadaver by Davis in 1800 hut the axillary operation was first per formed by Thomas in 1908. In the author's first case no dislocation has occurred since

The gap between the divided margins of the cap sule becomes hindged by scar tissue. The objection to other incisions is that they do not give a good exposure of the avillary portion of the capsule where the tear invariable occurs. The acceptance of the avillary operation has been retarded by a general lack of familiarity with the avillary vessels and nerves.

Athletes and epileptics are especially liable to develop recurrent dislocations of the shoulder. In the author's opinion, snapping shoulder is a recurrent dislocation in which the tear is not sufficiently great to allow displacement of the head out of the glenoid fossa. It may be corrected by capsulor rhaphy.

Of thirty three cases traced following capsulor rhaphy, a complete cure resulted in twenty two In sux cases the operation was followed by only one dis location and in two cases by two dislocations. Such

dislocations the author believes are of advantage when the amount of scar tissue already formed is not sufficient to prevent them. The slower the return of motion after capsulorrhaphy the stronger the joint. Thomas believes that if the surgeon is familiar with the relations of the circumflex nerve the prognosis offered by the operation is good

PORCET V TENSTES M D

Thomson J E M Fixation of Fractures of the Clavicle Another Method J Am II Ass 1926 level 1517

Thomson describes the use of plaster of Paris in the treatment of fractures of the clavacle particu larly those of the outer end where reduction and immobilization are necessary for both the union of the bone and the treatment of the usually asso

ciated shoulder injuries For fractures of the proximal and middle thirds a figure of 8 plaster cast is applied over a sheet wadding bandage while the arms are held abducted up and backward. This cast embraces the chest and can be cut out about the neck and arms with out being weakened. It is worn for four weeks. A

muslin bandage is then applied for a time When the fracture is in the outer third of the clavicle the cast covers the whole trunk and in cludes ar arm spica which immobilizes the arm abducted at go degrees with the forearm horizontal and supmated. After two and one half weeks the upper part of the arm cast is removed for physic therapy and after four weeks the whole spica is removed. An immobilizing muslin and adhesive dressing is then applied for another week or two

This treatment allows the joint injuries to heal and reduces the period of painful shoulder dis ability which often follows

CHESTER C GLY M D

Cutler C W Jr Fractures of the Head and Neck of the Radius i i but 1026 lyxun 267

Cutler reviews hits cases of tracture of the head and neck of the radius which were treated at the Roosevelt Hospital New York in a period of ten vears The incidence of these fractures was about the same in both sexes. The average are of the patients was 31 years. The oungest subject was 6 sears old and the oldest 53 sears. The average age of patients with fractures of the neck of the radius alone was 18 year while that of those with fracture of the head of the radius alone was 37 years

In twents ca e so per cent) the cause was direct trauma to the elbow in a fall and in ten cases (20 per cent) a fall on the extended hand

Examination revealed simple cracking without displacement in seven cases his uring of the radial head with separation of one fragment in fourteen cases fracture into multiple fragments in eleven cases and fracture of the neck of the radius in four teen cases. Direct and indirect trauma were both apparently capable of producing any of the four types of fracture mentioned

In one case each the fracture of the radius was complicated by postenor dislocation of the ulra posterior dislocation and fracture of the olecranon fracture of the coronoid and fracture of the upper third of the nion

In nearly all of the cases the pain was referred to the lateral side of the elbow and in all one or more of the motions at the elbow wa inhibited Swelling about the elbow was noted in two thirds of the cases seen within twenty four hours. Eachy mosis was not common Direct or indirect tenderness was present in forty three cases

The treatment v as carried out along conservative lines except in cases showing marked displacement of the fragments or late impairment of function

TREMONT & CHANDLER M D

Christopher F Fractures of the Head of the Femur trek Surg 1926 til 1949

This study is based on nine fractures of the head of the femur eight of which have been reported in the literature and one of which was treated by the author. The condition is caused by extreme vio lence and is exceedingly rare. In all of the reported cases it was accompanied by a posterior dislocation and was probably due to the impact of the dislocat ing head on the posterior rim of the acetabulum Its possible presence should be considered whenever a posterior dislocation is associated with crepitus on passive motion by the diagnosis must be confirmed

bs \ ray examination

The treatment of choice is closed reduction under general anæsthesia followed by early active and passive mobilization. If this fails open reduction with removal of the fragments of the fractured head is necessary. Operative treatment is indicated also when although closed reduction seems success fut function becomes progressively poorer. Regard less of the treatment the prognosis as to function is unfavorable CHESTER C GUY M D

A Spontaneous Fracture Following Bone Banding for Fractures J Bone & Joint Sure 1926 VIII 37.

The author reports two cases of spontaneous fracture of the femur following banding by a competent surgeon Both fractures were due to muscular action One was subtrochanteric and the other intercon

dvlar Garr agrees with Scudder that bone bands should be routinely removed. He always removes the band within one month of its application

DAVIEL H LEVINTHIL M D

Albee F H Mechanical Employment of Seques trum Fracture of the Femur 3 Bone & Joint Surg 1926 vin 325

Albee reports the case of a boy 17 years old who sustained a compound comminuted fracture of the lower central portion of the shaft of the left femur The first treatment consisted in wide open drainage and Carrel Dakin irrigation. At the end of a month a Lane plate was applied, but fragments became dis

Three months after the injury, the wound was reopened, the displaced fragments and an extensive
osteomychitis being then disclosed. The lower 4½
in portion of the upper fragment was white and
showed a V shaped line of sequestrating demarcation. The fragment ends were re-shaped to form a
concavity in the sequestrating portion and a conresponding convexity of the lower fragment, the
ends then being approximated with traction and the
mortise further secured with kangaroo tendon. The
wound was packed with iodoform gauze and the leg
immobilized by a plaster of Paris spica.

At the end of four and one half months an \ ray examination through the cast showed the formation of callus and an involucrum The sequestrum was removed through a window in the cast The con

dition progressed favorably and the patient was dis charged five and one half months after his injury

Physiotherapy was then instituted, but because of the limitation of motion at the knee, another operation was done. This showed adhesions between the shaft of the knee and the quadriceps. After their attention, a piece of fascia lata was inserted between the femur and muscle. However, in spite of strenuous physiotherapeutic measures, only go degrees of motion at the knee could be obtained

Subsequently an attempt was made to flex the knee by force under general anæsthesia. This was prevented by tense fascial bands on the anterior and lateral aspects of the lower portion of the thigh Subcutaneous fasciotomies were therefore done.

The limb is now only 34 in short and has free, active and painless motion to beyond a right angle

ROBERT C LOVERGAN, M D

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

#### BLOOD VESSELS

Haberer H A Case of Successful Suture of the Portal Vein (Ueber einen Fall von erlolgreicher Naht der Vena porta) II ien med II chuschr 1925 lvv 57

Haberer reports a case in which to the course of a gastroduodenal resection for an ulser in the middle of the stomach there occurred the exceedingly rare complication of injury of the portal vein. He was able to meet the emergency successfully. The case was one of hourglass stenous. The stomach and the rist part of the duodenium were closely adherent to the undersurface of the liver. These adhesions which were found due to the penetration of a callous ulcer deep into the liver were very deficult.

to loosed. The ulter was shelled out of the larer with an electric cautery and a thick strand which was mot intimately adherent to the ulter tumor was caution; is massed longitudinally. This resulted in a bas singer into the foreign of Window and thereby atopped the bleeding so that he was able to make a certific tumnation as to its source. He found that the hind came from a vein the sure of the finger with hind the in short general terms and the fine of a cm. This wein proved to be the displace to prefat year.

has it was possible to keep the vessel closed off with the huger which had been introduced into the formen of Wimbow the site in the vessel was the el with erse with interrupted sutures and with out evident narrowing of the vessel lumen. Re

covery resulted

F) prevent are embolism and barmorrhage in cases of injury of the portal year the author recomment compression of the hepatodyodenal lugament by tai injuit up on a finger introduced into the foramen of Windian. No form of tamponade and compression from intoin gives as good results.

Colley (Z)

Pfaff O G Ligation of the Inferior Vena Cara

1 1 1 0 1 2 6 vice 1926 x2 660

The author reports a case in which the vena cavaraptured into a retropersioned cyst and he higated above and below the rupture. An almost uneventual recover resulted. Ten days after the operation a slight swelling in the legs and thighs became apparent but two years later the patient was in good health.

Such cases show that lightion of the inferior vena cava (at least in a favorable situation) is not neces sarily a disaster—It seems to be clear that the collateral circulation is rapidly developed to the extent that after a few weeks the early ordema is only slightly evident and eventually disappears altogether

As a rule ligation is probably eafer than suture of the wounded vessel but if the site of injury is found at or above the renal vein every effort must be made to repair the vessel as ligation in that locality would inviviably be disastrous

E I. CORNELL M.D.

#### BLOOD TRANSFUSION

Rubin E H The Clinical Value of the Erythrocyte Sedimentation Reaction in Surgery Surg Gyme & Obst. 1926 xln 652

The sedimentation reaction is the speed with which red blood cells settle in a citrated column of blood. The author uses the following method for this test

Into a sterile s c cm. Record syringe a solution of 38 per cent sodium cirate is a farm up to the 04 mark. Blood is then aspirated from an arm wen to the 2 c cm. mail. a dilution of 14 being thereby obtained. After thorough mixing in small Wasser mann test tubes the samples are taken to the laboratory where the blood is drawn up into long serological pipettes graduated into hundred this which are placed in a suitable rach, the layer of plasma then bring observed at the end of one two and then the own and trad directive in our cents.

twenty four hours and read directly in per cent The reading made at the end of the second hour is the most significant one

After studying the reaction in 100 cases Rubin summarizes his findings as follows

- I In surgery the crythrocyte sedimentation reaction was found to be a more reliable indication of the patient's condition than the temperature chart
- 2 Its disgnostic and prognostic value were secondary to its value in indicating the acuteness of a process
- 3 Extrasurgical complications such as syphilis or tuberrulosis tended to maintain high readings in spite of improvement in or even a cure of the surgical affection. In the absence of such complications repeated tests may guide in the discharge of patients but for many reasons it would be impractical to keep patients in the bospital until the reaction excelle normal humits.
- 4 Because the test indicates the severity of tissue destruction it should be of value in deter mixing the advisability of operation and the time at which it should be performed

JOHN I MALONEY M D

# SURGICAL TECHNIQUE

#### OPERATIVE SURGERY AND TECHNIQUE, POSTOPERATIVE TREATMENT

Davis J S The Treatment of Deep Roentgen-Ray Burns by Excision and Tissue Shifting J Am M Ass., 1926, lxxxv1 1432

The author states that when in cases of deep reentgen ray hurns, the ordinary local methods have been tried for a reasonable length of time without satisfactory results, nothing is to be gained by the further delay of operative measures I none of the cases referred to him has treatment with ultra violet or other rays heen beneficial Early excision of deep hurns with tissue shifting promises more surely than any other method yet known a prospect of permanent relief in a comparatively short time

The excision of the ulcer and the surrounding area of induration should he as radical as possible Occasionally, when the exposed tissues seem normal and the excision has been complete, the author grafts skin immediately, but in the majority of cases, in which general occing occurs, he first overs the wound with perforated cellosilk or with gauze impregnated with a 3 per cent bismuth tribrom phenate (xeroform) ointment and then packs the depression snugh, with sterile sea sponges

After forty eight hours the dressings may he removed without causing pain or hleeding, and after a few davs during which compresses saturated with physiological sodium chloride solution are applied continuously the granulations usually sprout and are ready for grafting Gauze saturated with balsam of Peru, one part and castor oil, three parts is also used to stimulate granulations

In the greater number of cases requiring grafting the author prefers small deep grafts. Occasionally he uses Olher Thersch grafts, but when the defect is large he prefers whole thickness grafts. In a number of cases he has used pedunculated flaps from neighboring itsues which have not been changed by the rays or from a distant part and has found them of great value when a pad of fat was necessary in addition to the skin.

If conditions are favorable, the flap is shifted onto the fresh wound immediately after the excision of the burned area but if the shifting is delayed the results are better if the granulating area is removed before the flap is sutured into its new bed

When the burn is comparatively small and in a favorable position it may be excised completely by an elliptical incision and the skin then closed with sutures after undercutting. Massage is begun on the grafts about three weeks after healing has taken place and is continued for several months.

By this treatment pain is eliminated and in many instances patients who have been incapacitated for years are enabled to return to their former activaties

Davidson, E. C. The Prevention of the Toxæmia of Burns Treatment by Tannic Acid Solution Am J. Surg., 1926 xl, 114

If a severely hurned patient survives the acute period of depression or shock, another syndrome develops viz, that of toxemia. In the cases of twelve patients with second degree burns and twelve with third degree burns the blood chlorides were found to he very low. Sodium chloride was therefore administered orally rectally, subcuta neously, or intravenously as indicated.

In the belief that the toxemia is due to the absorption of a protein derivative at the site of the burn the author coagulates or precipitates the devitalized tissue by applying a dressing wet with 2 5 per cent tannic acid. He has found that this lessens the toxemia everts an analgesic effect. Ilmits secondary infection promotes epithelialization and limits scar formation. After the tissues become a light brown the dressings are removed and the area is exposed to the air. J. Franks Dougitty, M.D.

Seifert E Bacteria in the Blood After Operations
(Ueber Baktenenbefunde im Blut nach Operationen) Arch f klin Chir 1925, crreviii 565

After an operation on an infected region of the hody, bacteria appear in the blood in a relatively large number of cases. It seems that this depends to some extent on the nature of the evinting organ ism. In the cases reviewed by the author the blood findings were positive in 54 per cent of the cases with a staphylococci infection, 30 per cent of those with a streptococci infection, and 25 per cent of those with a bacillus cell infection. It is evident also that the anatomical relations of the disease focus are of great importance. Operations on tissues rich in veins are more apt to be followed by bacterizemia than those on other tissues:

After operations on acute abscesses and phleg mons, defective localization of the processes is evidenced by positive bacterial findings in the blood in 50 per cent of the cases, whereas after operations on older, better walled off subacute and chronic processes bacteria are found in the blood in only one fifth of the cases. Other factors of importance in bacterizamia are the method of operation and the handling of the tissues.

In 204 cases of operation on a purulent condition, postoperative bacterium in developed in ninety one In general, postoper titive bacteriama is usually not associated with alarming phenoment. In none of the cases observed by the author has a septic condition developed.

#### MISCELLANEOUS

CLINICAL ENTITIES—GENERAL PHYSIO-LOGICAL CONDITIONS

Siye Maud The Inheritance Behavior of Cancer as a Simple Mendellan Recessive Studies on the Nature and Inheritability of Sponta neous Cancer in Mice J Cancer Research 1926 7 15

In every test made in studies of the nature and inheritability of spontaneous cancer in mice every neoplasm has been found to occur in accordance with the mendelian expectation for a simple recessive

The cancer resistant and the cancer susceptible tendencies have been proved inheritable

By the hybridization test the tendency toward cancer resistance has been proved to be dominant over the tendency toward cancer susceptibility and both of these tendence have been proved un questionably inheritable following the mendelian

pattern very closely

The types of cancer and the sites where cancer is likely to occur have been proved inheritable by both the inbreeding and the hybridization tests. These characters also have closely followed the mendelian pattern

JOSEPH & NARY VID

Burrows M T The Mechanism of Cancer Metas tasts treh Int M d 19 6 xxxvii 453

In Burrows opinion the cancer cell is merely a normal cell reacting to stagnation and cell crowding in its immediate environment

Cancerous and embryonic tissues are rich in a substance or substances (archusia) which accumu late in a stagnant environment. Adult tissues con

tain only traces of these substances

The chief cour e of metastases of cancer is always
along the lines of surface drainage from the original

tumor mass

Metastases in cancer are not due to a simple migration of cancer cells from the cancer to distant organs but are pinnants, the result of the spread of a liquid substance from the main tumor mass. This substance is beta-red through the digestion of cells in the center of the mass of cancerous tissue. It is a growth stimulating substance. It stimulates not only cancer cells but also normal cells. It can flow over any water surface. The cells move into it. The fluid precedes the spread of cancer cells and metastases.

The author concludes that the whole phenomenon of cancer can be reproduced by simply cutting down the blood supply to a cellular tissue and allowing the cells to revert from the differentiated to the growing state Jacob S Grove MD

De Asis C Gutaneous Carcinoma of the Lower Extremities Ann Surg 1926 lxxxii 663

The author discusses the varieties of carcinoma occurring in the lower extremities and the course taken by the disease in this region of the bods The two most important types of cutaneous car cinoma are the squamous cell and the basal cell types Males are more frequently affected by cu taneous carcinoma than females The ages of four of the author's patients ranged from 20 to 32 years Trauma is an important factor in the etiology. The period of time elapsing between the injury and the first appearance of malignancy ranges from a few months to a year Another predisposing factor is the scar of an old burn Syphilis also has been regarded as of importance in the etiology but of the author's seven cases in which a Wassermann test was made only one gave a positive reaction and in the latter there was a history of trauma at the site of the cancerous growth. The part played by varicose ulcers and varicose veins is unknown but in 310 cases of varicose ulcers the author found malignancy in only one

Metastasis takes place late in cutaneous care noma of the lower extremities. This is explained by the fact that the edge of the ulcer undergoes thick ening and induration which squeezes the lumina of the lymphatic vessels and thus prevents the flow of lymph which ordinarily carries cancer cells.

The choice of treatment is determined chiefly by the extent of the malignancy, the nature of the growth and the surgeons experience with the various procedures. The procedures most commonly used are amputation of the limb excision with the cold kinfe or cautery. Yay irradiation electrocogulation or a combination of these

The author reports seventeen cases in detail ENIL C ROBITSHEE M D

Blair Bell W. Theory and Practice in Relation to the Treatment of Cancer with Lead Brit M J 1926 1 687

The author states that malagnant neoplasa appears to be a reversion of the somatic cell to the early embryonic type which forms the trophoblast Pathologists have discussed the undifferentiated cells seen in malagnant growths but strictly speaking these should be called dedifferentiated cells since they are normal cells which have retrieved

their way back to undifferentiation

Morphological evidence shows that whereas being no eoplasia is the result of hyperplasia in nor mai tissues malignant meoplasia is a process of dedifferentiation except in the case of choron epithelioma which represents hyperplasia of a nor mally malignant tissue—the chorionic epithelium

Warhurg has shown that although in the absence of ovygen, a normal resting cell has a slight glu colytic power, in aerobic conditions it does not per form glucolysis, whereas malignant tissue everts its glucoly tie power even in the presence of oxygen

The author believes that sufferers from lead

poisoning are not affected by cancer

With regard to treatment he states that the use of colloidal lead in the prevention of recurrence after operation is of such importance that every case subjected to operation for cancer, whether the disease is helieved to he totally eradicated or not should be treated as if the disease were still present

Mention is made of the fact that, in the use of colloidal lead disasters have occurred as the result of lead poisoning

JACOB S GROVE, M D

# GENERAL BACTERIAL, PROTOZOAN, AND PARASITIC INFECTIONS

Wainwright, J M Tetanus Its Incidence and Treatment Arch Surg 1926 xii 1062

Of 584 men answering a questionnaire sent out by Warninght, nearly all of whom have had extensive experience with industrial and fraumatic cases 365, or nearly two thirds stated that they had seen no tetanus in the last four years (1921 1924) in industrial cases

It seems universally agreed by lahoratory workers that when tetanus toxin has once united with the cells of the central nervous system the antitorun has no power to hreak up the union and it would do no good to hathe the cells in antitorun even if this were possible. Moreover, there is no evidence that the antitorus serum injected into the spinal canal gets into the tissues of the cord and hrain and as it has been established that the toxin is not present in the cerchrospinal fluid during the disease, no toxin is neutralized by spinal injections.

toxin is neutralized by spinal injections
Antitovin given by vein in doses of from 30,000
to 50,000 units or more, according to the severity
of the symptoms and the time since the onset of the
condition, will divide the present average mortality
rate by two or three or more. The efficiency of this
dose and route depends directly upon the prompt
ness with which the treatment is given. If the dose
must he repeated it should he approximately the
same size as the initial dose and given by vein only.
In the last days of convalescence intramuscular
injections are allowable.

The best sedative is chlorbutanol given by mouth in a dose of 30 gr dissolved in hot whisk) or by rectum in a dose of 75 gr in hot olive oil. It should be repeated sufficiently often to keep the patient relaxed and drows; until the danger is passed

Morris H Kahn M D

# BIBLIOGRAPHY of CURRENT LITERATURE

NOTE—THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE OF THIS ISSUE ON WHICH AN ABSTRACT OF THE ARTICLE REFEREND TO MAY BE FOUND

## SURGERY OF THE HEAD AND NECK

#### Head

Immediate and late results of operation for injuries of the cranium SLOCKER Prog de la clin Madrid 1926 xiv 341

Idiopathic dilatation of Stensen's duct T Barsony klin Wcknschr 1925 iv 2500

A case of abnormal salivary fistula G S CHAWLA Indian M Gaz 1926 lvi 233

Fracture of the skull—report of thirty-one cales SO BLACK Internat J Med & Surg 1926 XXXIV 189 Complete course of events in fracture of the base of the cranium & L HANSON J Am. M Ass 1926 IXXIV

A case showing re formation of the frontal bone re moved eight years ago for acute osteomyelitis. W. M. Mollisov Troc Roy Soc Med. Lond. 1916 xix Sect. Laryngol. 29

Roentgenological analysis of an unusual malformation of the temporal bone and the technique of its examination

F G Mayre Acta radiol 1926 v 135
Fracture of the styloid process of the head K Speciff
Deutsche mid Wichnicht 1925 li 2074
Surgical correction of various types of malrelation of the

Surgical correction of various types of materiation of the laws V P BLAIR Radiography 1926 vii 453 Fractures of the mandible an analysis of 100 cases R H Ivy and L Curtis Dental Cosmos 1926 Izviii

Hang Bone fistulæ after injuries of the jams C Cavina Vierteljahrsechr f Zahnheilk 1925 zli 495 K Haupt So-called giant cell tumors of the jam K Haupt

So-called grant cell tumors of the paw K HAUPL Vierteljahrsschi f Zahnheilk 1925 xli 449 Prosthesis atter hemiresection of the lower paw for grant

cell tumor result at the end of thirteen years Houdier and Real Buil et mem soc d chirurgiens de Par 1926 xviii 225

A case of sarcoma of the right lower law D C I

FITZWILLIAMS Proc Roy Soc Med Lond 1926 x1v Clin Sect 35 An odontome from a bullock I B CLEIAND Med I

Australia 1926 1 580

Edematous anthrax with meningitis F Krauss and

N O SPIKES Am J Ophth 1936 35 1x 337 Contribution on the treatment of cancer and precancer of the hp C BUILER An Fac de med Univ de Mon tevideo 1925 x 985

#### Eye

Eye symptoms in the diagnosis of general disease H M Traquair Edinburgh M J 1026 ns xxxiii Med Chir Soc Edinburgh 91

Some details of importance in railroad ophthalmology G H MUNDT Internat J Med & Surg 1926 XXXIX 200 Clifford Allbutt and medical ophthalmoscopy W L BENEDICT Minnesota Med , 1926 18 222 A symposium on alit lamp microscopy of the living eye
G O Rino, A J Bedett and L C I eter Atlantic M
J 1926 Xxit, 528 533 533
Tuberculosis of the eye J F Weeks Am J Ophth

Tuberculosis of the eye J F Weeks Am J Ophth 1916 3 8 1x 243 [181] A case of metastatic intra-ocular mycosis F H Ver norry Arch Ophth, 1926 by 225 Observations on the therapeutic action of ultraviolet

light upon the eye W S DURE ELDER Brit M J 1926
1 891
Diathermic studies on the eye and ear A R. Hor.

LENDER and M M COTTLE Arch Otolaryngol 1926 111
438
Phenolaine in ophthalmology A FERGUSON Brit M

J 1926 1 865

Does smoking affect the vision? F L ALLOWAY

Illinois M J 1926 xlix 434

Blindness among 6,000 adults H D LAMB J Missouri
State M Ass. 1926 xriv. 170

State M Ass 1926 vanil, 279
The fusion faculty and some of its anomalies W B Lancastrex Am J Ophth 1926, 3a is 247
[181]
A chromatic test for the dominant eye J I PASCAL
Am J Ophth 1926 5 15 2557

Am. J Ophth 1926 3 8 18 357

An acuity apparatus with attachmenta for testing the light and color sense and for color mixing C. D. FERREE and G. RAND. Arch Ophth 1926, IV 245

A new anatomical notation of the visual field. M. U.

A new anatomical notation of the visual field. M. U.
TRONCOSO Brit J Ophth. 1926, x 280
The relation of fact to theory in vision and color vision.

I W EDEMO: (REEN Med Press, 1926 is ext. 360 A case of schithyosis of the slin with estropion A of Hermon Proc Roy Soc Med Lond 1926 xix Set Ophth 11 A congenital diffu e fibroma of the eyelids and check

H W MEYER Am J Surg 1926 xl 121
Burns of the eyelids E VEITER Bruvelles-mcd 1926
vi 767
Chancroid of the eyelid L F Appleman and S S

Chancroid of the cyclid L F APPLEMAN and S S GREENBAUM Am. J Ophth 1926, 35 ix 358
Trachoma in Palestine 113 epidemiology and a review of measures for dealing with it N SHIMKIN But J

Ophth 1926 x 247

A family of squinters F H Rodin J Am M Ass
1926 lxxxvi 1613

Should the use of the terms first second and third degree nystagmus be continued? G. W. MACKENZIE Laryngoscope 1926 XXVI 325. A simple method of determining the counterrolling of the

A simple method of determining the counterfolding of the human eve C E BENJAMINS J Laryngol & Otol 1926 zii 300 Forceps for positive fixation of the globe J M Parron

Am J Ophth 19 6 3 8 18 360
A case of neurofibromatosis with buphthalmos and keratectasia entropion of the lower lid A C Hudson Proc Roy Soc Med Lond 1926 218 Sect Ophth 12

A case of hydatid cyst of the orbit removal of the cyst with preservation of the eye and vision E A SEALE

Brit M J, 1926, 1, 900
A case of bacillus tularense (squirrel plague) con junctivitis D T Vall, JR Arch Ophth , 10 6, lv 235
Episcleritis and tuberculin treatment J F Spring

Med J Australia, 1926, 1, 520 Blood staining of the cornea C Magny California &

West Med , 1926, tx1v, 637 A case of interstitial keratitis accompanied by perio titis of the tibia due to congenital syphilis M H Wattrac Proc Roy Soc Med Lond, 1926 x1x, Sect Study Dis

Child, 48 An improved technique for iridectomy for glaucoma G F SUKER and B CUSHMAN Am J Ophth, 1926, 3 s

17, 268
Iridectomy with winged incision in glaucoma GREEN Am J Ophth , 19 6, 3 5 17, 342

A new method of staining the nerve fibers of the iris M BALADO Bol inst de clin quir, 1925 1, 257

The etiology of initis and its relationship to the clinical diagnosis E W HANSEN J Lancet, 1926, a s A case of cyst of the 1ris (? ectodermal cyst) P G

DOYNE Pror Roy Soc Med Lond . 1026, xix, Sect

Report on the progress of ophthalmology, aqueous, lens vatreous A N ALLING, P G DOYNE, and L. WESSELY Arch Ophth , 1926, lv 299

Heterochromic cyclitis with cataract formation J S
PLUMER Am J Ophth 1926 3 s 1x, 349
Pupilloscopic findings in lesions in different parts of the

reflex arc F H ADLER Arch Ophth, 1926 lv 262 Cases of black cathract A C HUDSON Proc Roy Soc Med Lond, 1926, tix, Sect Ophth, 11

A new technique for the expression of the cataractous lens in its capsule H SMTH Arch Ophth, 1926 lv

Immature cataract operation for use when intracapsular extraction seems inadvisable C H BAGLEY Surg

Gynec & Ohst 19 6 xln, 698 Lid traction the greatest safeguard against vitreous loss in cataract operation P OBARRIO Am. J Ophth , 1926

3 S 1x, 264 TÍ821 Phaco anaphylactic endophthalmitis F H VERHOEFF

Arch Ophth , 1926, lv, 296

The late results of intracapsular cataract extraction A KNAPP Arch Ophth 1926 lv. 257

A case of (?) metastatic inflammatory deposit in Clo quet's canal in both eyes M L HEFBURN Proc Roy Soc Med I ond, 1926 vix Sect Ophth, o Papillitis from osteoma of the septum O WOLFE Am

J Ophth 1926 3 s 1x, 340 A case of retinitis (result of hæmoirhage) A C Hudson Proc Roy Soc Med, Lond, 1926 vix Sect Ophth, 9
Cases of central retinitis A. C Hudson Proc Roy Soc Med Lond 1926, x1x, Sect Ophth, 10

A case illustrating the significance of retinal arterioscle rosis A L Brown Cincinnati J M , 19 6 vii 149
Bilateral retrobulbar neuritis of obscure origin case re

port V L HART and C R Toy I Ophth Otol & Laryngol 1926 xxx, 163 Bilateral optic neuritis from menstrual disturbance, case

report S G DABNEY Kentucky M J 1926, XXIV 235
Optic neuritis and cerebral tumor A Young and others

Brit J Ophth , 1926 x 288 Retrobulbar neuritis due to frontal sinusitis L W

DEICHLER Am J Ophth, 1926 3 s 1x 346 Coloboma of the optic nerve M L IERNER Am J Ophth , 1926, 3 5 1x, 241

Ear

The development of the membranous labyrinth G E SHAMBAUGH Arch Otolaryngol, 1926, 111 233 Labyrinthine tonus and variations in intracranial pres

sure L M HUBBY Arch Otolaryngol , 1926 111, 479 The relation between audition and the circulation of the

blood in the head H STILLSON Northwest Med , 1926, XXV 242 A clinical and experimental study with some physical

agents in partial deafness preliminary report HOLLENDER and M H COTTLE Arch Otolaryngol 1926 111, 338 Recovery from tubal deafness caused by a sarcoma

S Longe and W O Longe Brit M J, 1926, 1, 8 26 Neuro arthritis in otorhinolaryngology J L LAVEN

TANA Clin v lab 1026 x11 15

Gastro intestinal disturbances in infants as a result of streptococcus infection in the ears A M ALDEN South

М Ј, 19 б, хіх 360 Ear complications in some of the more common acute infectious diseases B F Glowacki J Michigan State

M Soc, 1926, cav, \*11
Differential diagnosis in operative and non-operative purulent otitis media chronica T J WALTHALL Texas

State J M , 1926, tx11 13 A new in trument for the treatment of chronic catarrhal otitis media with superheated air J GUTTMAN Arch

Otolaryngol 1926 111, 453 Report on a specimen from a case of cerebellar abscess shown at the recetting held December 5, 1925

Proc Roy Soc Med Lond, 1926 xix, Sect Otol 26 The prognosis of middle ear suppuration in children a review of 500 cases D GUTHRIE J Laryngol & Otol,

1926 xl1 305 The significance of aural discharge J V F CLAY

Habneman Month 1926 lx1, 272 A case of double vestibulotomy H Law and G BEW

Tuberculosis of the tympanum P F Pogue Cin cinnati J M 1926 VII, 151

Acute mastoiditis, lateral sinus thrombosis and pyemia report of a case, with operation and recovery S D GREENFIELD Arch. Otolaryngol, 19 6 iii 444
Mastoutius without apparent outus media F K. Hansel. Arch. Otolaryngol 1926, iii, 433

Acute mastoiditis without apparent middle ear symptoms M A WEINSTEIN Laryngoscope 1926 VIXVI, 320

Acute mastorditis in infants-report of three cases G B DUDLEY Virginia M Month , 1926 lin 110 Bezold's mastorditis and the blood count in this disease

H KLEMPTNER Northwest Med 1026 XXV, 253 Critical review of a recent group of radical mastoidectomies A G Beyer Cincinnati J M , 1926 vil 155

#### Nose and Sinuses

Newer problems in non surgical rhinology R. A. TENTON Northwest Med , 1926, XXV, 248

Sympathetic phenomena in rhinology HALPHEN and TERRALOL Arch internat de laryngol 1026 XXXII 406 The diary of the great mucous membrane disease the

so called common cold T F REILLY Med Times, 1926, The treatment of a cold by homeopathic doses of iodine

D M KENZIE J Laryngol & Otol 1926 xl1, 299 its spontaneous disappearance Sir St C THOMSON Med Press 1926, n s cxx1 351

Rhinoplasty with an ivory transplant A E Lunpon

Canadian M Ass J 1926 xv1 561

238 Rhinoplasty with costal cartilage grafts P MORNARD

Paris chir 1926 XVIII 63
Subtotal rhinoplasty O IVANISSEVICH Bol Inst de

clin quir 1925 î, 253 Perforation of the nasal septum L BLUMENFELD

Laryngoscope 19 6 xxxvi 333

Congenital occlusion of the choanæ K A. Phelips Ann Otol Rhinol & Laryngol 1026 xxxv, 143 [185] Tumors of the nose and throat G B \ Ew Arch Otolary ngol 1926 111 461

Some of the newer methods of X ray examination of the paranasal sinuses the optic canals the pharynx and the laryny. Il A Goalwin Laryngoscope 1926 xxxvi 235 [185]

The diagnosis and treatment of paranasal sinus infections in infants and young children under ethylene anas thesia L W DEAN Laryngoscope 1926 xxxvi, 257 [185] The recognition and non-operative treatment of acute sinusitis H S WEAVER, Hahneman Month 1026 lyr

Observations on the frontal sinus W O Longe Brit M J 1926 1 607 Accidental rupture of the ethmoid roof with subsequent recovery J G Howr Arch Otolary ngol 1926 111 452 Paralysis of the third fourth and sixth nerves from phenoid-ethmoid disease C M MILLER Virginia M

Month 1926 lin 89

The diagnosis and treatment of maxillary sinusitis B McH Cline J Med Ass Georgia 1926 tv 181 A report of fifty four cases of malignant neoplasms of the antrum of Highmore B F SCHREINER Arch Clin Cancer Research 1925 1 65

#### Mouth

Diseases of the mouth—the domain of stomatology C Biococcoo Med J & Rec 1936 exait 669 The present educational status of stomatology in Italy G Corv Gaoli Yled J & Rec 1936 extil 674 Agentra-crail method of stomatological reentgenograph)

A CIES YASKI Med J & Rec 1920 CYZIII 061 Oral focal infection as a cause of systemic disease E C

Oral local infection as a cause of systemic answar in Cose on Med J & Rec. 19 6 c.xxii 6.37. Is denti try to become a specialty of medicine? G R SATTERIEE Med J & Rec. 19.26 c.xxiii 6.67. The problem of dential education in France. A Heaptin

Med J & Rec 1926 exx111 6 9

Abnormally shaped teeth from the region of the pre

maxilla Sir F COLYER Proc Roy Soc Med Lond 1926 xix Sect Odontol 30 An approach to the study of pyorthea alveolaris A J Ascis Med J & Rec 1926 extin 685

The radical surgical treatment of pyorrhoxa alveolaris R. NEUMANN Med J & Rec 1926 CXXIII 671

Syphilis of the mouth J G Dowving Urol & Cutan Rev 19 6 xxx 293 Lingual goiter V PALCHET Parischir 1026 TVIII 82

A pedunculated thyroid at the base of the tongue arising from the region of the foramen carcum. F HARVEY But J Sur, 1926 x111 746

Tuberculosis of the tongue C K. P HEVRY Canadian M Ass J 1926 XVI 531 Radium therapy in cancer of the tongue and secondary

involvement of the lymph nodes C RECAUD Strahlen therapie 1925 xx1 73 [156]
The technique of the use of removable radon seeds in carcinoma of the tongue J Muis. Ann Surg 2026

Hemiglossectomy by endothermy in carrinoma of the tongue G A WYETH Ann. Surg 1926 LXXVIII. 583

Cancer of the floor of the mouth. C. Goosmann Com cinnati J M 1926 vil 158

Conduction anasthesia of the maxillary nerve Ren-DINGILS Zischr f Hals Nasen u Ohrenheill 1026 XIII 4 O

#### Pharynx

Exostoses of the cervical vertebrae as a cause of difficulty in swallowing H P Mosner, Laryngoscope 1926 xxxvi Anterior dislocation of the atlas as a cause of inability

to swallow solid foods H B ORTON Laryngoscope 1026

Lipoma of the pharyny. F R. HERRIMAN Laryngoscope 1926 xxxvi 330

Vincent's angina II E MILLER and \ EPSTEIN California & West Med 1026 xxiv 633 Agranulocytic angina report of a case with fracture of the tibia R. I HUNTER Laryngoscope 1026 xxxvi

Tertiary syphilis-gumma of the pharynx and arenical dermatitis A L RUTH J Urol 1026 XV 502 Palatine division clongation of the velum, \ \ \ EAU

Bull et mem Soe nat de chir 1926 lii 390 An irremovable parotid tumor (perithelioma) of the soft palate and lateral pharynges! wall treated by radium and diathermy D Mckevzie Proc Roy Soc Med Lond 1976 tix Sect Laryngol 31

The importance of the tonsil capsule in preserving the anatomical relations of the palatal atructures C C

MILLER Med Times 1926 liv, 115 Fibro adenologoma of the tonsil L I FRIEND Arch Otolaryngol 1026 tii 448

Tonsillar infection as a cause of Memère's disease J DALAND Latyngoscope 1926 xxxv1 345

Tonsillectory with pecial reference to the Corson and Bacon tiers for the prevention or control of hamorrhage W Bicon J Ophth Otol & Laryngol, 1916 XXX 158 The respiratory factor in the postoperative treatment of tonsils and adenoids J D LICKLEY Practitioner 1926 CT11, 359

#### Neck

A vasculonervous anomaly of the neck. ROMÁN TAURÒ CÉSPEDES and KECIO Rev de med y cirug de la Habana 1926 XXXI 157 A congenital complete branchiogenetic cyst and duct

II W MEYER Am J Surg 1926 tl 121 Cysts of the thyroglossal duct W E SISTRUM

Minnesota Med 1926 iv 235 Inclusion cysts of the hyomandibular region, E L ELIASON Therap Gaz 19 6 1 238

The pathology and treatment of furuncles of the neck O M CHART Deutsche Ztschr f Chir 1926 CYCIV 247 Progress in the study of thyroxin E C KENDALL

Minnesota Med 1926 IT 230 The action of thyroid in the treatment of obesity A J Coro Rev de med y cirug de la Habana 1926 xxx1 151

The basal metabolism in thyroid pathology E CLA VEAUX. An Fac de med Univ de Montevideo 1925 x Certain phases of hypothyroidism F E CLOW Am

Med 2026 TXII 201 Inflammations of the thyroid gland J T WATER'S

Ann Clin Med 1026 1V 628 Thyroiditis H H SEARLS and E I BARTLETT Cali forms & West Med 1926 xxiv 639

Iodized salt in the prevention of goiter 1 it a safe measure for general use? C L HARTSOCK J Am M Ass 1026 IXXXVI X 134

11891

W M LANE

Salmon in a diet for the prophylaxis of goiter N D JARVIS, R W CLOUGH and E D CLARK J Am M Ass, 19 6 lyxxvi 1339

Diseases of the thyroid gland, with special reference to goiter J M Wilson Am J Surg 19 6, vl 107

The goster question P SCHMITZ MOORMAN Mitt a d

Grenzgeb d Med u Chir 1926 cxxix 8°
Gotter in children in New York City a thyroid survey
of 11084 school girls and 783 school boys F Comev

Am J Dis Child , 1926 xxx1 676 Goiter incidence in New Jersey school children H S

REICHLE Arch Pediat 1026 diu, 320

Practical points in the diagnosis of goiter W C

CHANEY New Orleans M & S J 1926 Exviii 737

The classification of goiter with pecial reference to iodine therapy W J Arrasmith Nebraska State M

1026, 11 174 A discussion of the clinical aspects and histology of struma and their relationship to one another on the basis of the struma material in Goettingen 19 2-1924 A

BEYKIRCH Beitr z Llin Chir, 1925 CXXXV, 165 [188] Studies on the question of an inherited constitutional tendency to nodular colloid struma K H Bruer Beitr

z klin Chir 1920 cxxxv, 512

The inevitable damage consequent upon goiter F A COLLER Chicago M Rec 19 6 vlv111, 129 Gotter metastasis Dreesmann Med Alin, 19 5.

TRI. 1871 Indications for the surgical treatment of gotter T H

LAHEY Radiology, 1926 vi 368 Two cases of anterior mediastinotomy for struma intra thorax O Aleman Acta chirurg Scand 1026 lv 135

[1891 Safeguarded thyroidectomy C C MILLER Am J Surg

1026, xl 105

Thyroidectomy—operative safeguards and indications A L BLESH J Ollahoma State M Ass 1926, viz. 119 The function of the thyroid gland after thyroidectomy B BREITNER, E NOBEL and A ROSENBLUETH Mitt a d Grenzgeb d Med u Chir 1926 xxxiv 45

Grafting of the thyroid gland L CARMOVA Ann ital

di chir 1926 v 244 Studies of hyperthyroidism III Bile pigment produc tion and erythrocyte destruction in thy rold treated am phibian larvæ C C Speidel J Exper Med, 19 6, xl111 703

The medical management of hyperthyroidism D W

CARTER JR Texas State J M, 19 6 xx11, 34

Medical treatment of hyperthyroidism H M CLUTE
and R L Masov Ann Clin Med, 1926, 11 673 [189] A case of hyperthyroidism cured after operative castra

tion O knook Zentralbl f Gynaek 1926 l 343 Observations on the diagnosis of thyroid toxicity and the clinical use of the basal metabolism test the thyroid heart B E HAMILTON Radiology, 1926, vi, 372

Y ray the treatment of choice for toxic goster L

DUNHAM Radiology 1926 vi 386

Evophthalmic goiter F R Fraser and T P Duv

IIILL Glasgow M J 1926 n s Tuii, 321

# Brain and Its Coverings Crantal Nerves

The diagnosis of intracranial lesions G W Swirt Northwest Med 1926 vev 229

Remarks on the construction and use of the Meyer Schlueter Sound W E PAULI and E VON REDWITZ Deutsche Ztschr f Chir 1025 cxcur 343 [191]

Exophthalmic gotter in the Pacific northwest J T Maso Surg Gynec & Obst , 1926 vlii, 663
Evophthalmic goiter and tuberculosis J H Musser Ann Clm Med 1926 1v, 620 [189] Conjugal and luetic Basedow's disease J KOOPMAN

Wien klin Wchnschr 1925 XXVIII 1150

The diagnosis of exophthalmic goiter

I Nat M Ass 1026, Will 71 The X ray treatment of exophthalmic goiter M HAYES, T G HARDMAN J M O CONYOR and others

Lancet 1026 ccx 812 A study of the X ray treatment of 100 cases of Graves'

disease M R I Haves Irish I M Sc 1026 D -04 Observations on the surgical treatment of Graves

disease Sir W I DEC WHEELER Irish I M Sc 1026 p \*16 Exophthalmic goiter a follow up study of cases treated

with the rountgen ray B J SANGER Arch Int Med 1026 XXXVII 627 Tetany following operations on the thyroid gland H N Brooersen Norsk Mag f Laegevidensk, 1925

lxtrvi i 03 The treatment of infantile tetany with a parathyroid extract, report of four cases L A Hose and H RIVKIN J Am M Ass 1926 LXXVI, 1343

The transplantation of parathyroids in partial thy roidectomy Γ H LAHEY Surg Gynec & Obst 1926

xh1 508 Parathyroid medication B A Houssay Rev Asoc méd argent 1926, TXXIX 145

Teratomata of the thyroid gland H Custer Frank

furt Zeschr f Path 1925, vexuu 125 An embryonic mixed tumor of thyroid J W Bell

J Am M Ass 1926, lyxxvi, 1616 The action of a cytotoxic serum on carcinoma of the thyroid E COULAUD Bull et mem Soc med d hop de

16 Par to 6 du A clinical and pathological study of fifty five malignant neoplasms of the thyroid gland W M Sturson Ann

Chn Med 10 6 1v. 643 [190] Acute laryngeal cedema D N Husik Laryngoscope

1926, CCIVI 352
Spasms of the glottis J CISLER Arch internat de laryngol 1926, txx11 389

The psychological moment for operative procedures

in croup and the results of intubation in children under 2 years J von Bokay Deutsche med Wchnschr 1926 lu 267 An unusual case of acute infection of the epiglottis and

larynx tracheotomy and recovery L Darly and N A ALLEN Laryngoscope 19 6 xxxv1 367

Paralysis of the left vocal cord with dysphagia for liquids D MCKENZIE Proc Roy Soc Med, Lond, 1020 XIX Sect Laryngol 20

Notes on the recognition and treatment of early laryn, eal malignancy C B Hollis Hahneman, Month, 1926 Iti 281

Laryngectomy in one stage J E Mackenty Surg Gynec & Obst 1026 xIn 644

# SURGERY OF THE NERVOUS SYSTEM

A case of fat embolism of the brain following frac ture of the leg and simulating progressive paralysis, with recovery

A vov Sarbo Klin Wchnschr, 1925 11, 1918 The influence of decompression operations on experi mentally produced papillordema L Davis Arch Surg 1026 XII 1004 [191]

A new operative method for the relief of pressure in congenital hydrocephalus DRACHTER Zentralbl f Chir 1925 111 27,6 Intracranial complications of otitis media seen by the

ophthalmologist R. A FENTON Am J Ophth. 1926 38 321 The treatment of traumatic frontal brain abscesses A WINEELBAUER and H BRUNNER Arch f klin Chir

1025 CXXXVII 160

Report of two cases of brain abscess present in patients suffering from pasal accessory sinus disease R E Par

RISH Laryngoscope 1916 XXXVI 336
A case of abscess of the cerebellum of ottic origin. RIMINA Arch internat de larvagol 1926 XXXII 385

Cases illustrating the symptomatology of brain-stem lesions and of chronic subdural hamorrhage W H Houses Med Clin N Am 1926 ix 1541 The differential diagnosis of brain tumor what may be

The differential diagnosis of beam to the State M J expected from surgery C E Locke Ohio State M J 1926 XXII 307
Report of a case of multiple sarcoma of the hrain T L

HOULTON Nebraska State M I 1026 1x 160 Remarks on local anæsthesia in intracranial operations with special reference to albromin as a substitute for novo

came H. OLIVECRONA Acta chirurg Scand 1026, hr 71921 Cerebrospinal meningitis C H Horrichter and I W

Unis Northwest Med 1926 tav 245 Pneumococcal meningitis cisternal puncture A H DOUTEWAITE Lancet 1026 CCT 1036

Meningococcus meningitis in an infant J M STURTE VANT J Am M Ass 1926 LXXXVI 1436 The mental condition nine years after meningitis treated

by frequent ventricular puncture H H C GREGORY Brit M J 1926 1 899
Toxic (subdural) meningeal hamorrhage A G Banes

and A M N PRINGLE Lancet 1926 ccx 075 A case of lead poisoning with onset simulating trigeminal

neuralgia L Foshay J Am M Ass 1926 Exxivi 1688
A case of inflammatory gliosis of the intracranial por tion of the trigeminal nerve Bourguer Bull et mem Soc d chirurgiens de Par 1926 gvin 205

The radical treatment of trigeminal neuralgia B HCGRES Brit M I 1026 1 821

Retrogasserian neurotomy with conservation of the motor root J Bourguer Paris chir 1926 xviii 84 The infectious nature of facial paralysis C B WELTON Med J & Rec 1926 cami for

A new symptom in the diagnosis of facral paralysis the abolition of the palmomentonnier reflex. A RAPOVICE

Presse med Par 1926 xxxiv 453

An operation for the removal of the sphenopalatine ganghon, E C SEWALL Ann Otol Rhinol & Laryngol Into xxxv r 1192

Isolated bilateral paralysis of the glossopharyngeal nerve due to cerebral syphilis B J ALPERS Am J M Sc 19 6 clax1 740

A study of the peripheral path of the vagus I The medullated fibers of the right vagus 1 Inama Folia anat, 1200n. 1025 111 215

## Spinal Cord and Its Coverings

A case of the meningocele type of spins hinds P SAVAGE Indian M Gaz 10 6 lvi 226 Late decompression of the lumbar cord following an injury W C Stevenson Canadian M Ass J 1926 XV1 563 Trophic glial states in spinal cord lesions O LATHAM

Med I Australia 1026 1 50

Studies in poliomielitis résumé and newer findings E C Rosenow Minnesotz Med 1926 ix 231
An unusual cauda equina lesion J C HULTRANS

Mrnnesota Med 1020 iv 160

Some cystic structures of the spinal dura mater and an rnterpretation of their pathogenesis P Verga Speri mentale 1925 Exiv 763 [193]
Spinal cord tumors T STELLWAGEN J Urol 1926 11931

XV 489 Clinical and cerebrosminal fluid diaenosis of spinal cord tumors k Grosz 1925 Vienna Springer Experiences with rodinin myelography G BUETTNER

Bestr z klin Chir 1026 exxxv 404 Experiences with some spinal intradural tumors E LANDELIUS Acta chirurg Scand 1926, lx 180 [194]

#### Perlpheral Nerves

Exercise of the phrenic nerve in pulmonary affections Watty Felix, Ergebn d Chir u Orthop 1925 xviii Goo Clinical lessons from 100 operations on the phrenic nerve J Gergels and S Markovits Gydgyaszat 1025, [195]

#### Sympathetic Nerves

Experimental investigations of the afferent cardio aortic paths and the physiological demonstration of the existence of the depressor nerve as an isolated nerve in man NESCO THOMA and IONESCU Zischr f d ges exper Med 1026 xlv111 400

The effect of paravertebral injections in angina pectoris Manuel Arch f klin Chir 1925 CXXXVI 495 [195] Critical remarks on modern surgery of the sympathetic nervous system. E Liex Arch f klin. Chir, 1925

CTY5VII 220 Periarterial sympathectomy C Moscu Rev de chir Bucharest 1025 X 11 207 An experimental contribution on the so-called peri

arterial sympathectomy E MELEVER Arch f klin Chir 1925 CXXXVI, 427 Results of persarterial sympathectomy in six cases of

perioheral tuberculosis R FONTAINE Rev de chir Par 1026 Tly, 53

The minute structure of the nerves of the large blood vessels in the large extremities a contribution on peri arterral sympathectomy L Hirson Arch f klin Chir 1026 CUXIX 225 Obliterating arteritis of the right brachial artery cessa

tion of pain and alleviation of the circulatory symptoms after persarternal sympathectomy CAIN and HAMBURGER Bull et mem Soc med d hop de Par 1926 xl11 629 Division of the rami communicantes in a case of a cend ing post traumatic neuralgia WERTHEIMER Lyon chir

Some notes on fifty dissections and sympathectomies of the cervicothoracic sympathetic A Pavlowsky Rev de

cirug Buenos Aires 1026 y 130 Impending gangrene of the leg following ligation of the popliteal artery prevented by resection of the lumbosacral

sympathetic trunk 1 Osawa and G Usami Zentralb! I Chir 1926 lin 320

#### Miscelianeous

Cerebrospinal fluid normal and pathological A L 55.00G Northwest Med 1926 XXV 222

The permeability of the meninges during menstruction and pregnancy R BEVD4 Arch f Gynaek, 1025 exxv 630 645

Is there a depressor sense? W LEHMANN Beitr z klin Chir, 1925 CXXXV, -53

Restoration of innervation in skin transplants Polissadowa Zentralhl f Chir, 1925, liz 2166 [196] Disability, damages, or disease R C HAMILL Med

Clin N Aro, 1926, 1x 1499 Neurological diagnosis L J POLLOCE Med Clin N

Am 1926 1x 1473 Pain as a symptom of disease particularly of the nersous system. H W WOLTMAN Northwest Med , 1926, xxv

Mercurochrome in acute infections of the central nervous system. W H HENCSTLER Minnesota Med , 1926 1x

Status epilepticus (traumatica) operation recovery H W ROBERTSON Canadian M Ass J 1926 TV1 541 Neurofibromata C WILLIAMS South W & S. 1926,

IXXXVIII 304 Three tumors arising from neuroblasts W Boyo Arch

Surg . 1026 x11 1031 A case of sacrococcygeal chordoma A RICHARDSON and A L TAYLOR Brit M J 1026 1 862

# SURGERY OF THE CHEST

#### Chest Wall and Breast

The female avillary organ in the human being J KLAAR Wien klin Wchnschr, 1926 xxxix 127

The question of polymastia and polythelia L Theodor. Zentralbl f Gynaek, 1926 l 286

233

The treatment of beginning mastitis with local injections of the patient's blood V RUBEŠKA Zentralhi f Gynaek, 1926 I, 284 Some surgical considerations of tumors of the breast

G AUD Kentucky M J, 1926 xxiv, 220 Simultaneous bilateral mammary cancer E J Klopp

Ann Surg 1926 lxxxiii 733

Late and early carcinoma of the hreast Sir G L CHEATLE Practitioner, 1926, cxvi 337
Radiation therapy of the female breast J Paul and

D & KEITH Kentucky M J, 1926 xxiv 222
The treatment of cancer of the breast by penetrating

radiotherapy C CHAMBACHER and W RIEDER Presse méd , Par , 1926 xxxiv 499

Experiences in the irradiation of breast cancer H

Wintz Brit J Radiol 1926 xxxi 150
Bardenheuer's incision E Martin Monatsschi f Gehurtsh u Gynaek 1926 lxxii 183

#### Trachea Lungs, and Pleura

Low perforation of the traches from a guashot wound with report of case T J CARMONY Laryngoscope 1026. XXXV1 362

Tracheo-cesophageal fistula due to carcinoma of the œsophagus a valuable diagnostic aid M C Myerson Arch Otolaryngol, 1926 111 456

Peroral endoscopy an historical survey from its origin to the present day I Moore J Laryngol & Otol, 1926

Laryngo-tracbeo hronchial endoscopy A L GUTHERE

J Oklahoma State M Ass 19 6, x1x, 112

Radiographic exploration of the hronchopulmonary system by means of liptodol J Guy and J C ELDER Edinburgh M J 1926 ns xxxiii, 269

Lipiodol in the diagnosis of bronchopulmonary lesions hy the hronchoscopic method report of fifty cases D H Ballon Arch Otolaryngol 1926 111, 403
Foreign bodies in the tracheobronchial tree a report of

cases in which bronchoscopy was not done L H CLERF Laryngoscope 1926, xxxv1 206 Morphological changes associated with partial occlusion

of the pulmonary veins of one lung K. SCHLAEPFER Surg, Gynec & Obst 1926 xli1 679 Bronchoscopic aids in thoracic surgery L H CLERF

Surg Clin N Am. 1026, vi 281 The bronchoscopic treatment of lung suppuration with pecial reference to the post tonsillectomy type M C MYERSON Laryngoscope, 1926 xxxv1 356

A tumor like appearance of tuherculosis in the roentgen picture E SILBERSTERN and S SINGER Wien med Wehnschr 1925 lxxv, 1910 2283

The standpoint of the internist in the surgical treatment of pulmonary tuberculosis G Barn Ergehn d inn Med

u Kinderh 1025 xxv111 430 The indications and results of the operative treatment

of pulmonary tuberculosis A BRUNNER Ergebn d mn Med u Kinderh , 1925 vxviii 390 Artificial pneumothorax in the treatment of pulmonary

tuherculosis and its effects on the laryax J P DWORET ZEY Ann Otol Rhinol & Laryngol 1926 xxxv 42 [198] The diagnosis and treatment of hydatid cysts of the

lung E Bressor Lyon chir 1026 VXIII 186 Lung expansion after acute emptema K D PANTON

Canadian II Ass J 1926 vvi 534

The care of the bronchial stump following amputation of the lung J FEIERMANN Arch f Llin Chir, 1925 CXXXVII 300

A study of pneumothorax S O REESE Nebraska State M J 19 6 vi 178

The use of artificial pneumothorax W S Newrov Med J Australia 1926 i 547 Fifty-eight new personal cases of therapeutic pneumo

thorax in children ARMAND-DELILLE, VANBOCKSTAELE, and PANIER Bull et mem Soc med d hop de Par 1926 xl11 667 Simultaneous bilateral artificial pneumothorax F

Topé and J TERRASSE Presse méd Par 1926 TEXIV A study of the human pleura pulmonalis its relation

to the blebs and bullæ of emphysema W S MILLER Am J Roentgenol 19 6 tv 309 [198]
The hæmorrhagic pleurisies Bollanske Arch med

belges 1926 lexix 97 Double purulent pleuris) diffuse phlegmon of the thigh R E Dovovan Rev med Lat Am 1926 x1 986

The treatment of purulent pleurisy Guinty Arch med belges, 19 6 lxxix 145

Can pleural effusions following thoracotomies be pre

vented by artificial pneumothorax? E CARLSON and S BUNNELL Arch Surg 1926 x11 919

#### Heart and Pencardium

Operation within the heart in mitral stenosis JAROTZKY Zentralbl f Chir 1026 liii 140 Pneumopericardium from radium necrosis I Gorres MAN and A J BENDICK Am J M Sc 1926 class 715

#### Œsophagus and Mediastinum

Surgical emphysema of the head and neck following esophagoscopy H L WHALE J Laryngol & Otol 1926, xli, 320

Foreign bodies in the esophagus with respiratory symptoms complicating the diagnosis report of four cases

J B AFTZGER and T R GETTINS Laryngoscope 1926

vxtv1 370
Maldevelopment of the orsophapus W Dalasov Brit M 1 10 6 1 .84

Convenital obstruction of the resophagus H C Froop Atlantic M J 1925 xxiv 53,

Stenosis of the esophagus H B Sweetser I Lancet 1026 hs 1/11 227

Cicatricial stenosis of the osophagus L H CLERP Surg Chn N \m 1926 \1 2,3 A cale of dysphagia due to a posterior pharyngo-

a sophigeal pour h W L TANNER Guy a Hosp Pep Lond 1926 lyvvi 153

Cardiospasm and concomitant asophageal diverticulum H FITZGIBBON J Am M Ass 1926 lerres 1614 Peport of an unusually large diverticulum of the esoph agus adherent to the pleura and its surgical treatment R REINECKE Fortschr a d Geb d Roentgenstrahlen

10 5 XXXIII 949 Dislocation of the larvey and traches in the externation [199]

of tumor of the er real portion of the ecophagus. A Vernicore Zentra bl. i. Chir. 1925, his 2479. [199] Cancer of the ecophagu. treatment by radium therapy late results. Gi isez. Bull et mem Soe d'chirurgiens de

Par 1026 TVIII 233

Three cases of herma of the mediastinum in the course of collapse therapy for pulmonary tuberculosis. L Ber NARD I VALTIS and J PARRET Bull et mem Soc med d hep de l'ar 1926 vin 60

Dermond cysts of the mediastinum II L BELL Ann

bur to b freeze s ...

Familial mediastinal lymphogranuloma report of three cases in one family A ARKIN Am J M Sc 1926 class

Thymic enlargement E FRIEDMAN Colorado Med 1926 Exitt 164
Thymus enlargement in infants and children if F

GARRISON New Orleans M & S J 1926 leven 727 The blood sugar in status the micely mphaticus a new theory as to the cause of sudden death. A B MACLEAN and R C SULLIVAN Am J M Sc 1926 clean 659

Sudden death in a case of status lymphaticus history with a pathological report J MILLER Canadian M As 1970 EVI, 559

Radiotovæmia with death following soentgen ray treat ment of an enlarged thymus A M DANEYDERY Atlantic M J 1926 2217 530

#### Miscellaneous

Non tuberculou diseases of the clest F W HEPPER SON New Orleans M & S 1 1026 lexvin 730 The roenigen ray diagnosis of the diseases of the thoracie viscera C B LOWELL J hat M As 19 6

3VIII 73 Printed tuberculous tracheobranchial glands simulat ing asthma M M I restrain and A H Fineman J Am

M Ass 1026 lxxxvi 1430

Chylothoray in the newborn infant report of a case C A Stewart and H P LIVVER Am J Dis Child 10 6 7771 654

Problems in the diagnosi and treatment of metastatic tumors in the chest P F BUTLER and J E HARBE Radiology 1926 vi 400

# SURGERY OF THE ABDOMEN

#### Abdominal Wall and Peritoneum

Con-enityl fistula of the umbilious and malformations of the omphalome ente ic duct B Wollmany Deutsche

med Wehnschr 19 o in 100.
The tudy of the inguinal abdominal region from an anatomical and surg al viewpoint A Gutteprez Rev de cirug Buero Lires 1926 v 221

Experimental result in the use of dead fascra grafts for bernia repair A P 1 000 TZ Ann Surg 1926 Ixxxiii,

The eriology and treatment of congenital inguinal herma R H Hantes Med Pres 1926 ns 111 3 1 Silver hit, ree in inguinal hera a P P Core Lancet

1926 CCx 9 4 A trangulated bernia in an 18-das-old baby B II

BREAKSTONE Illinois M J 1926 xlix 436 Active intestinal peri talsis as an aid in the reduction of incarcerated hernix H B SHEFFL. ID Boston M & S ? 10 5 ctc1 876

Perstonius re ulting from multiple perforation of syphi his picer of the mallingte time h Wartners Zentrafbi f Chir 1926 list 274

The treatment of acute pentoruti A WELLS and L BROOKS California & West Med 1026 Try 622 [201] The effect of antiserum against the soluble toruc sub stance of bacillus c le in bacillus cole perstonites B

STEINBERG and E E ECKER J Exper Med 1926 min 12011 Roentgenographic shadows suggesting calculi in tuber culous pelapentonitis Sicand Robiveau and Lient witz Bull et mem Soc med d hop de far 1926 chi

Some surgical a pects of tuberculous peritoritis. C. D. LOCKWOOD California & West Med 1026 TOW 642 The treatment of experimental peritonitis by mercurochrome 220 soluble alone or in conjunction with hypertonic dextrose solutions A M Willis and C C HA LELL Arch Surg 1925 xil toso

The report of a case of a accular cyst containing free omentum Bovver and Miction Lyon thir 1926 xtill

Epithelionia of the omentum Thevenard Bull et mem Soc d chisurgiens d Par 1916 Evili 293 Mobilization of the root of the me entery its surgical

value A GUTIERREZ Rev de cirug Buenos Aires 1926 V 05 12027 Cysts of the mesentery C Usurn J Med Ass Georgia 1926 XV 179

Recurrence of a retroperatoneal hopoma second inter vention nephrectomy Layor Bull et mêm Soc d chiturgiens de Par 1926 vuit 202

#### Gastro Intestinal Tract

The motor mechanism of the digestive mucou mem brane G I ORSSELL Brit J Radiol 1926 xxxx 189 The transport mechanism of the alimentary tract and its chineal significance C F McCLINTIC J Michigan State M See 1926 TTV 205

Ireclinical signs and symptoms of gastro intestinal disease E N Pecs. J Med Soc N Jersey 1926 xxiii

The differential diagnosis of upper gastro intestinal lesions R. R. GRAHAM Canadian M. Ass J. 1926 191

The effects of roentgen ray urradiation upon the gastric and intestinal secretions W Dieterich and I Rost [202] Strahlentherapie 19 5 xx, 108

Cardiospasm in the roentgen picture K BREITLAENDER Fortschr a d Geb d Roentgenstrahlen, 1925 VIXIII

Congenital infantile hypertrophic stenosis of the py lorus J C A Grest, E Joves and Q B LEE Texas

State J M 1926 TXII 25 Congenital hypertrophic stenosis of the pylorus B

HUGHES Practitioner ro 6 CW1 35r The indications for operation in pyloric stenosis BAUER Monatsschr f kinderh 19 6 txx1 384

A new top for gastroduodenal tubes M Elvitorn J Am M Ass 19 6 lexxvi, 1615

Gastro-intestinal hamorrhage in children J H HESS and P ROSEVBLUM Med Clin N Am , 19 6 IX 1377

Acute phelgmonous gastritis D R OWEY Brit M J, 1926 1 787 A case of diffuse acute phlegmonous streptococcus gas tritis diagnosed during life cure with hour-glass stomach

S 10 STAPELMORR Wien Llin Wehnschr 19 5 XXXVIII [202] 1010 The diagnosis of syphilis of the stomach L GMELIA

[202] Beitr z Llin Chir 19 5 exxxiv 597 Some complicated and uncommon gastric lesions H A

SINGER Med Clin N Am 1926 IV 1601 The condition of the vagus nerve in cases of gastric and duodenal ulcer O SCHMD Wien med Wchnschr 1925

[20.3] teer rest The characteristic blood sugar reaction in ulcer of the stomach W SCHARPER Llin Wchnschr, 19 6 v 138

Statistical report of gastric and duodenal ulcer and duodenal carcinoma in Charity Hospital, New Orleans Lafrom 1915, through 1925 E BLOCH New Orleans M & S J 1926 Exxiii 74

Chronic gastric ulcer with erosion of a branch of the pulmonary arters in a case of transdiaphragmatic prolapse of the stomach following a gunshot wound of the chest and diaphragm K SCHAPER Deutsche Ztschr f Chir 1926 exciv 169

The symptoms of gastric ulcerin childhood M Weber Arch f Llin Chir 1923 evertii 73r

Multiple and recurring forms of ulcer of the stomach \ DELORE P MALLET GOY and A VACHEY Lyon chir

1925 XXII 620 Hour glass stomach S PRINCLE Lancet 1926, ccx

Pepticuleer G E KNAPPENBERGER J VIISSOURIState VI Ass 1926 tx111 172 The peptic ulcer question R T Wilson South M I

r926 x1x 340 The occurrence of peptic gastroje junal ulcer secondary to gastro-enterostomy for ulcer LERICHE Lyon chir 1926

Perforation of gastine and duodenal ulcers Amberger Ztschr f aerztl Fortbild 1925 Wir 545 [201]
The treatment of gastric ulcer J C LEBMANN Muen

chen med Wchnschr 1926 lxxiii 101 The treatment of gastric ulcer L Koevic Muenchen

med Wchnschr 1926 lxxiii ro6 The treatment of gastric ulcer P Morawitz Muen

chen med Wchnschr rg 6 lexun roy The management of gastric and duodenal ulcer D C

Ballfour Canadian VI Ass J 1926 var 516 Co-operation in the management of peptic ulcer W E GATEWOOD J Iowa State VI Soc 1926 X11 230

Internal or surgical treatment of bleeding gastric ulcers? J H BERNER Norsk Mag f Lacgevidensk. 1925 IXXXII [204] T320

Medical treatment of peptic ulcer H A Goldshift Illinois M J 1926, vliv 420

Some observations on peptic ulceration with special reference to its medical management C F PITCHER

Med J Australia rg 6 1, 569 Experiences with the parenteral injection of albumin in

gastric duodenal, and jejunal ulcers H OEHVELL Svenska Lackartidningen 1925, xxii, 897 [204]
The anatomical picture of gastric and duodenal ulcers treated with novoprotein E GOHRBANDT Klin Wchnschr.

192<sub>2</sub> IV, 2492 The end results of medically treated peptic ulcer N W JONES Surg Gynec & Obst 1926 xli1 675

The treatment of gastric and duodenal ulcer perforating into the free peritoneal cavity F G MEYER Zentralbl f Chrf 1926 lin 333

Spontaneous and postoperative hamorrhage in cases of gastric ulcer and its treatment E Schwarz Muenchen

med Wchnschr 1926 lxxiii 194 Ga trectomy for ulcer of the lesser curvature HUGUIER

Parischir ro 6 will 71 External gastric and duodenal fistulæ C Nario In

Fac de med Univ de Montevideo 1025 v 040 The bacteriology of the stomach and of the upper intes tine in surgical diseases of the stomach L Bitter and

W LOERR Arch f Llin Chir ro 6 cvexis, 64 Roux I gistro-enterostomy C' L Gibsov Ann Surg

1926 LXXIII 727 The etiology and pathogenesis of cancer of the stomach J GOYANES Prog de la clin Madrid 1926 xiv 315

The newer clinical aspects of gastric carcinoma G B EUSTERMAN Radiology 1926 vi 409 The clinical picture of beginning carcinoma of the

stomach H I WIEL California & West Med , 1926 TRIV, Gastric carcinoroa without gastric symptoms notes on

two case Glasgow M J 1926, ns vani 460 Carcinoma of the stomach with high blood cosmophilia

E Werss J Lah & Clin Med 1926 ti 733 Carcinoma after gastro-enterostomy D R Owey Brit M J 1926 i 8 5

Partial gastrectomy under local and thesia for cancer of the stomach in a man 71 years of age J S Morsley Virginia M Month 1926 lin 80

Carcinoma of the stomach resection implantation of the duodenum mto the pancreas C G Heyn Ann Sum 1926 IXXXIII 546 [205]

The results of surgical treatment of gastric cancer F S HANSSEY Norsk Mag f Laegevidensk 1925 lyrgvi [205] autohæ

Pulmonary complications in gastric surgery motherapy A Gosser and M Thalhermer Bull et mem Soc nat dechir 1926 lii 193 [205]

Pre-operative and postoperative care in stomach opera ons Delore J Creyssel and J De Rougemont Presse roed Par 19 5 xxx111 1410 [205] The action of intestinal extracts W E Dixov and

J H WADIA But M J 1926 1 820 Chronic intestinal kinks PALCHET Bull et mêm

Soc d chirurgiens de Par 1926 Will 259 Intestinal obstruction E Butler and G D DELPRAT

F 2061 California & West Med 1926 TXIV 488 Acute intestinal obstruction due to malignancy RANKIN Surg Gynec & Obst 1926 xli1 638

The value of sodium chloride and enterostomy in the treatment of acute intestinal obstruction P RIDDLE Texas State J M r926 xxii 22

Clinical contributions on the pathology and surgical treatment of intestinal obstruction. J PERLMANN Arch

f Llin. Chir, 1925, exxxvii 245 [207]

Intestinal obstruction by a gall stone R S COLDREY Brit M J 1926 1 783 Volvulus of the small intestine C C KENNEDY Min

nesota Med 1926 17 243

244

Volvulus of the entire small intestine and a portion of the large intestine caused by the mesentery A SCHOETTLE Deutsche Ztschr f Chir 1926 cveiv 401

Gastro mesenteric ileus C L Gibson Ann Surg 1926 IXTTIII 08

The etiology of spastic ileus P Riess Zentralbl I Chir 1025 lii 2758

The treatment of ileus by choline C G L Worr and I R C CANNEY Lancet 1926 ccv 707 High enterostomy for ileus after appendicitis

ERDMAN Ann Surg ro 6 levens 715

Spontaneous reduction of acute intussuscention D J Davies Brit M J 1926 1 827 Recurrent intu susception P R Hawe Lancet 1026

cct 1036 Chronic irreducible intussusception in a twelve months infant resection R W Bolling Ann Surg 1026

leexin 545 12071 The operative treatment of invagination ileus

Mottranum Zentrallo fi Chr., 1936 him 450
The surgical phase of intestinal intussusception of in fanc, and childhood S E Harmon J South Carolina M. 481 1936 viti 107

An apparently primary melanoma of the small intestine E Peritz Arch f klin Chir 1926 cxxxx 243 A case of multiple carrinoids of the small intestine and

peritoneum P DECKER Rey med de la Suisse Rom 10 6, vlv1 202

A lymphosareoma of the small intestine F B CRAW FORD Med J Australia 1026 1 553

A case of periduodenitis LEWERCIER and HALLER Bull et mem Soc d chirurgiens de Par 1026 Will 136 Cases of acquired periduolenitis J HERTZ and A Bas ET Bull et mem Soc nat dechir 1915 li 1010 [207]

Congenital occlusion of the duodenum A 1 Magee Brit M J 1926 1 8 6 Complete congenital ob truction of the duodenum duo-

denojejunostomy at nine days R W BOLLING Ann 1026 IVEXIII 543 A clinical contribution on chronic arteriomesenteric occlusion of the duod num G Petrev Beitr z klin

Chir 1920 (\*\*\* 391 Pressure by the mesenteric root upon the duodenum

with absence of duodenal ileus G Robertsov Brit

M J 192( 1 93 A new duod nal tip C V Viscner J Am M Ass

1926 ltxxv1 1015 The diagnosis and medical management of duodenal

ulcer A \ Wouldange Minnesota Med 1926 18 250 The experimental production of duodenal ulcer by ex clusion of the bile from the intestine R. KAPSINON Ann Surg 1926 lxxxiii 614 [208]

Recurring perforation of a duodenal ulcer K Borszeky Zentralbl f Chir 1926 hin 328

Surgical treatment in duodenal ulcer V S Canor Minnesota Med 1926 iv 48

The effect of jejunostomy in experimental obstruction of the jejunum of the dog R L HADEN and T C ORR J Peper Med 1926 viiii 483 [298] Peptie ulcer of the jejunum opening into the colon

Corre Lyon chir 1926 Trin 231 Radical operation for postoperative peptic ulcer of the

sesunum with resection of the colon, and a contribution on the choice of operative procedures for g strie ulcer C FLECHTENMACHER JR Wien med Webnschr 1925 lxxv 2581

The incidence of Meekel's diverticulum R C COLE MAN J Iowa State M Soc 1926 XVI 238 The blood supply of the large intestine

WITSCH Zentralbl f Chir 1925 lii 2765 A foreign body in the abdomen eliminated through the intestine Thévenard Bull et mem Soc d chirurgiens

de I ar 1926 TVIII 294 An address on the medical a peets of diseases of the large bowel A H Gorpov Canadian M Ass I to 5

TVI SOS The treatment of chronic ulcerative colitis as based on the demonstration of a definite eausative micro-organism

J A Bargey J Iowa State M Soc 1926 X11 218
Diverticulities of the colon J F Erdmany Am J Obst & Gynec 1926 X1 609

Malignant diseases of the colon excum and appendix E C DAVIS J Med Ass Georgia 1926 XV 175

A simplified technique for anastomosis of the large bowel F P STRICKLER Kentucky M J 1926 XXIV Carcal prioses K L Jourston J Iowa State M Soc

1926 xv1, 221
Does the appendix pos e s an enjocrine function? Γ MOUTIER and & Foucise Presse med Par 1926 xxxxx

Intermittent volvulus of the appendix Thevenard Bull et mem Soc d chirurgiens de Par 1026 vini 282 The tuberculous appendix the local reaction and post

operative care after surgical intervention C E. TENNAVI and W W. HAGGART Colorado Med. 1926 Exist. 1,2 Appendicitis E. S. Branlett New Orleans M. & S. 1926 | 111111 ,66

Acute appendicitis its differential diagnosi surgical anatomy and operative treatment E M FROMMER

Clin Med 1926 xxxiii, 299
Acute appendicitis of the severe type a review of 100 consecutive cases with especial reference to the operative technique W L Wolfson and L J Morse Am. J Surg 1926 tl 100 Appendicatis in childhood W W BATTEY J Med \ss

Georgia 1026 xt 180 Some cases of subhepatic appendicitis BLANC Bull et

mem Soc d chirurgiens de Par 1926 xviii 253
Some views of appendiceal abscess II R. Do ALDSON J Med Ass Georgia 1926 th 187

\ ray findings in a ca e of appendiceal abscess of one years duration I Scitti verz Radiology 1926 v1 432 Recurrent appendicitis following appendiceal abscesses

DUETTHANN Muenchen med Wehnschr 1025 lxxxx 18 0 12051

Appendicatis and tricocephalus Séjourver Bull et mem Soc d chirurgiens de Par 1926 xviii 165 Helminthiasis colon bacilluria and appendicitis PERMIRE Bull et mem Soc d chirurgiens de l'ar 1926

X111 163 The relation between helminthiasis and appendicitis Léo Bull et mêm Soc d chirurgiens de l'ar 1926 vyill

A peculiar complication of appendicitis R T Davis

J Am VI Ass 1926, 17771 1650 Hysteria in a child following appendectomy P Nichol

Soy Atlantic M J 1926, xxix, 538
A histological examination of 157 appendices Lie and

CUIENSSE I ÉLISSIER Bull et mêm Soc d'chirurgiens de Par 1026 XVIII 180 Cancer of the transverse colon and its fl vures P

BERTRAND Presse med Par 1926 TXXIV 538 Pneumatic rupture of the sigmoid report of a cale F B BLOCK and M I WEISSMAN J Am. W Ass. 1926 12XXVI Adenocarcinoma of the sigmoid colon S ERDMAN

Ann Surg , 1926, lxxxii, 715
Foreign bodies in the rectum HALLER Paris chir,

1926, XVIII, 87

A cicatricial stricture of the rectum due to a burn in a nursing child V VEAU Bull et mem Soc nat de chir, 1926 111 389

Imperforate rectum with a vesical outlet E J KLOPP Ann Surg , 19 6 lxxxiii 734
Remarks on the prophylaxis of carcinoma of the rectum

J R PENNINGTON Illinois M J, 1946 dix, 435
The choice of operation for cancer of the rectum C J

DRUECK Nebraska State M J, 1926 to 195
The treatment of cancer of the rectum by the Percy cautery and endothermy A C CROOKALL Northwest

Med 1926 txv 258

Cancer of the rectum excision in 1911 chronic ascites after thirteen years no late metastasis. Talma operation cure W Meyer Ann Surg , 1926, laxxiii 726 Surgical diathermy in the treatment of bæmorrhoids W BIERMAN Brit J Radiol, 1926, xxx1, 178

## Liver Gall Bladder Pancreas and Spicen

A cytoplasmic rôle of the liver G W CRILE Therap Gaz 1026 l 166 [209] The formation of bilirubin F C MANN C SHEARD

and J L BOLLMAN Minnesota Med 1926 1x 2 7 Liver function tests S S BERGER M B COHEN and

J SELMAN Ohio State M J 19 6, TX11 397 New methods of determining hepatic function ROUILLARD Presse med Par 1926, XXXII 501

Rose bengal in the functional examination of the liver N Fiesbinger and H Walter Bull et mem Soc med d hôp de Par 1926 dii 525

A comparative study of liver functional tests ΑI RUBENSTONE and L TUFT J Lab & Clin Med 1926 [209]

Liver function tests a comparative study of five methods in 100 clinical cases S S Berger, M B Conen, and J J SELMAN J Am M Ass, 1926, Exxvi 1114 [210]
Studies in liver function VI Quantitative methods for determining the cholesterol and the alcohol soluble and insoluble bile pigments of the duodenal contents C McClure and M E HUNTSINGER Boston M & S I 1026 CYCIV 812

A hydatid cyst of the liver opening into the bile pas sages and causing the formation of a choledochocutaneous biliary fistula R R VILLEGAS Semana med . 1926

3XXIII, 287

A hydatid cyst of the inferior border of the liver N H RASMUSSEN and T E RIDDELL Nebraska State M J 1926, XI 198

Hæmatic cysts of the liver P JAUREGUI and P A. ETCHEGORRY Rev de cirug Buenos Aires 1926 v, 127 Fatal hamorrhage from the liver in an infant 5 days old

J A BERRY Brit M J 1926 1 825
Postappendiceal hipatic abscess J C Navarro Rev Soc argent de nipiol y pediat 1925 i 153

Intrahepatic lithiasis E STINCER. Rev de med y cirug de la Habana 1926 xxxi 190

A case of subphrenic abscess with vomited gall bladder B FERNSTROEM Acta chirurg Scand , 1926 lix 534 [210] Cholecystography I H LOCKWOOD and E H SKINNER

J Missouri State M Ass 1926 Taili 174

J Missouri State M Ass 1926 Taili 174

CAMP R J REEVES, and H FIELD, Jr Boston M & S J 1926 exciv 9,6

The roentgen ray in the diagnosis of diseases of the gall bladder I M Hodges South M &S , 1926 lexxvii 297

The practicability of radiological visibility of the gall bladder its availability, indications, and values to the family doctor W W BOARDMAN, W C ALVAREZ, H J ULLMANN, and H E RUGGLES California & West Med 19 6, 131v, 654

Cholecystography in its application to the diagnosis of cholecystic disease R D CARMAN Brit. J Radiol,

1026, XXXI, 163 Gall bladder diagnosis from the standpoint of the sur geon E A GRAHAM Radiology 1926 vi 273 The evolution of early to late gall tract disease a brief

consideration of its diagnosis and treatment B B V Lyon Radiology 1926 vi 279 [210] A clinical study of cholecystitis with the aid of chole

cystography O C Zink Radiology 19 6 v1, 286 [210] The practical value of the Graham Cole method in the diagnosis of gall bladder disease as compared with the older method A W GEORGE Radiology, 1926 vi [210] 292

Hydatid cysts of the gall bladder Asterianes Lyon chir 1026 exili 270

Cholecystitis and appendicitis W W BABCOCK, Surg Clin N Am 1926 vì 20 [211]

Cholelithmsis chronic salpingo-copbonitis with adherent abdominal scars W. W. BABCOCK Surg Clin N. Am., 10 6. V1 30 Spontaneous perforation in cholecystitis without stones

W FABRITIUS Wien med Wchnschr, 1925 lxxv 2580 The treatment of cholecystitis and the prevention of gall

stones A F HURST Lancet 1926 ccx, 966 The effect of chologen E HERRMANN Muenchen med Wehnschr 1926, lxxiii 64

The evolution of the modern treatment of diseases of the gall bladder S McGuire J South Carolina M

Ass 1026, Kult for A plea for early operation in diseases of the gall bladder H PIKE Med J & Rec 1026, com 583

The surgical indications of inflammatory diseases of the gall bladder A P HEINECA Med Times, 1926 liv, 129
Perforation of a cancer of the gall bladder into the peritoneal cavity, emergency cholecystostomy and second ary cholecystectomy L BONNET and A LAPOINTE Bull et mem Soc nat de chir, 1926 li rii 1212 Cholecystectomy the end results in 100 cases L W

POLLOK. Teras State J M 1926, xx11, 16 Aids to cholecystectomy C L Gresov Ann Surg.

1026, lxxx111 618 So-called pseudo recurrence after excision of the gall bladder and the indications for choledochoduodenostoms H RUMMEL Zentralbl f Chir, 19 6 hii -66

The effects of sodium tetra todophenolphthalem in complete bilitary obstruction S J Madbock and L R Whitakase Boston M & S J, 1936, event, 973 Bile-duct obstruction demonstrated by the sodium tetra todophenolphthalem meth

Radiology, 1926, v1, 429

The surgical anatomy of the juxtaduodenal segment of the common duct F Fuchs Arch f klin Chir, 19 6 CXXXIX 124

Fatal biliary peritonitis after puncture of the common duct A Sonn Zentralbl f Chir, 1925 lii, 2578 [212] Exposure of the common duct in operation for the recurrence of stone after cholecystectomy L PAYR Zentralbl f Chir, 1925 In, 1986 [212]

Carcinoma of the bile passages with multiple metastases A THEVENOD and F FINCK Rev med de la Suisse Rom 1926, xlv1 297

Cholecystenterostomy for carcinoma of the bile ducts C L GIBSON Ann Surg , 1926 lxxx111 728

A case of rupture of the pancreas and pleen cured by operation and some comments on the shoulder and arm pain II HAVLICER Zentralbl I Chir 1925 lii 196

Pancieatic di ease-with ca e reports A A Jourson J Iowa State M Soc 10 6 TV1 160 [213] The pathological physiology of experimental gangrenous pancreatitis L E Tower J Am VI Ass 1926 Kvevy [213]

Pancreatic cyst F B CRAWFORD Med J Australia

Cyst of the panciess J M Havrond Ann Surg 1926 lvvx111 711 Cancer of the pancreas and bile ducts D C ELKIN

J Med Ass Georgia 19 6 To 173 Surgery of the pancreas L FRANK Kentucky M J

1026 XXIV, 209 Implantation into the stomach of a pancreatic fistula following cyst A GUITÉRREZ Rev de cirug Buenos Aires 1925 1v 223 [214]

The function of the pleen C A R. CAMPBELL. Texas State J M to 6 van 28 The function of the pleen F L Solen Rev med

Lat Am 1926 ti 963 Hypertrophy of the spleen Lanos Bull et mem Soc

d chirurgiens de Par 1926 Will 291 Gauchers di ea e C'OBERLING Ann danat path 1926 111 353

Banti adi ea e R J MILLARD Med J Australia 1026 Splenectomy I Conv. New Orleans M & S J 1926

1xxvui 820 Splenectoms for purpura hamorrhagica R I HARRIS Canadian M 1 s J. 1016 311 334

Splenectomy for es entral thrombocytopenic purpura hemorrhanica in a girl aged to years B IVERS I roc Roy Soc Vied Lond 1920 xiv Clin Sect, 31
Three cases of splenectomy for essential thrombo-

cy topenic purpuis hemorrhagica B Myers R Maincor and I h Gordon Proc hos Soc Med Lond to 6 tit Clin Sect 3

#### Miscellaneous

Handbook of special pathological anatomy and histol ogs I HENE and O LUBARSCH Vol IN The alimen tary trict Part I The pharynx and tonsils The crooph agus The stomach and intestine The abdomen 1926 Berlin Springer

Contu ion of the abdomen FARR Ann Surg 19 6 Ixxxiii os

Comments on the Farhrus reaction-the stability of the blood su pension-in acute surgical affections of the abdomen A TROELL Acta chirurg Scand 1016 lix The differential diagno is of pain in the right loner

quadrant of the abdomen H \ BLAISDELL

State J M 1926 XXVI 305
Abdomin'd puncture in the diagnosis of acute intrapentoneal thea e H Neuron and I Cours Ann

Surg 1926 1777111 454 [215] Pyelography in the diagnosis of tumors of the flink F C HERRICK Ann Surg 1026 lycxin 614 A large tumor in the pelvis of a male adult R C BRYAN

and R L CREEKMUR South M & S 1926 luxty111 2 3 The surgical significance of abdominal pain | I S Hr.

SOV Texas State J M 1926 TXII 19 Purpura with intense abdomical pain as a late complication of scarlet fever R SMTH and T A BERTRAM

Canadian M Ass. J 1926 xv1 555
Tuberculosis of the mesenteric lymph glands J R Heap Ann Surg 1926 lexxiii 62

Tabes mesenterica A RANDALL, J Urol 1026 xx

The roenteenological demonstration of abdominal exu dates with a contribution on the roentgen diagnosis of peritonitis II LAURELL Acta Radiol 10 6 v 61 Intra abdominal hamorrhage of ovarian origin. FEINER Surg Gynec & Obst 1926 thi 671

Abdominal hemorrhage laparotoms with recovery COWLES J Ollahoma State \f Ass 1926 x17 12 Some surgical conditions found in the lower abdomen VI J McGrave J Iowa State M Soc 1926 xvi 236

Abdominal cases illustrating important surrical prin ciples J L STRETTON Brit M J 1926 1 901
The surgical treatment of medical diseases of the abdomen J B DEAVER, Therap Gaz 1916 1 305

The medical treatment of surgical disea es of the abdomen H A. HARE Therap Caz 1926 1 210 Spinal aurethesia in abdominal surgery C H Bustron

orthwest led. 1926 EX. 240
Infusion and transfu ion in abdominal surgery FRIEDEMANN Arch f Llin Chir 1925 CXXXVII 555 The question of postoperative separation of laparotoms wounds with prolapse of the abdominal content

Wener Zentralbl f Chir 1926 lin 2 A case of persitent hiccough treated ucce sfully by injections of novocain into the phienic herve

Gitose Indian M Gaz Itt 1 4 12151 The symptoms and treatment of diaphiagmatic bernia

O UEBELROFR Deutsche Zische f Chir 1926 cres 161

# GYNECOLOGY

#### Uterus

The registration of contractures of the non pregnant human uterus H. Hinselmann Klin Webnschr in

Metroplasty of the split uterus H Fucits Zentralbl f Gyneak , 10 6 1 30 A method of endoscopic examination of the uterus with

its indications H F SELVOUR Proc Roy Soc Med Lond 1926 viv Seet Obst & Gynge 74 Transillumination of the cervix of the uterus L R
Thompson J Am M Ass 1926 lexxvi 1437

A second case of recurrence following vesicovaginal inter position of the uterus cured by the Alexander Adams operation A Parvz Zentralbl f Gynael 1926 I 233

Neuralma of the ilco-inguinal nerve after the Mexander Adams operation H AUESTER Zentralbl f Cynael. 10 6 I 232

Result of the Schauta Weitherminterposition operation C POLLACE Zentralbl f Gynaek 1026 | 2 6

A roethod for the operative treatment of severe prolap e of the uterus with a contribution on the pathology of prolapse E Solus Zentralbl f Gynaek 1026

Retro uterine ligamentopexa DARTIGUES Bull et mêm Soc d chirurgiens de Par 1926 XVIII 132 Retro uterine ligimentopery by the transligamentous

procedure WEBER Paris chir 1026 XVIII 96 I thmic hysteropexy PÉRAIRE Bull et mém Soc d

charurgiens de Par 1026 Tviii 244

The technique of ligamentous fixation of the uterus according to the Doléris method G COTTE and R

PEYCELON Gynéc et obst 19 6 x111, 241

The treatment of cervical catarrh with animal char coal F C Geller Zentralhl f Gynaek, 19 6 1 165 The passive hyperæmia treatment of chronic cervitis G L MOENCH Am M Obst & Gynec 1926 x1 637 The treatment of cervical metritis with a high frequency

current. P FLANDRIN and L SCHIL Presse med Par 1026 XXXIV, 433

The diagnostic value of the reaction of the vaginal secretion in gonorrheea of the cervix L. Volkmann Muenchen med Wchnschr 1926, lxxiii 15

The symptoms and operative treatment of unilateral hæmatometra in a hicornate double uterus. A Sonv

Zentralbl f Gynaek. 1923, xlix 2890 The report of three cases of uterine inversion due to

fibroma P HARDOIN Bull et mêm Soc nat de chir 1926 lu 378

A large fibromyoma of the cervix, case report CURISTOPHER Am J Obst & Gynec 19 6, vi 668

Cystic degeneration of a uterine fibroid with partial extrusion. W EDMOND But M J, 1026 1, 8 7 Adenoma of the uterine cervix E Dougs and A

Solmaru Gynét et obst , 1926 zill 245 The roentgen ray as a remedy in fibroids and other gynecological diseases M E HANKS Illinois M J

19 6 tlix 414

Endotheliomata of the uterus K ULESCO-STROGANONA Arch f Gynaek, 1925 cxxiv 802 Malignant degeneration of uterine leiomyomata. H

Srus Am J Obst & Gynec 1926 vi 697 Carcinoma adenomatodes cervicis uteri H R SPENCER

Proc Roy Soc Med, Lond so 6 xix, Sect Obst & Gynac 6, Carcinoma of the cervix R Aicholson H L Mur

RAY and A GEMMELL Lancet, 1926 ccz 910

Cervical carcinoma and venercal disease R Nicholsov Brit M J 19 6,1 785

The treatment of squamous-cell epithelioma of the cer VIX. F W LYNCH Surg Clin N Am 1926 vi 333 [216] A histological investigation of a case of cancer of the cervix of the uterus cured locally by radium and A ray treatment H RtD Acta obst y gynec Scand 1925 11

The radium treatment of carcinoma uteri G G WARD and L K P TARRAR Am J Ohst & Gynec 1926 x1 [217]

Carcinoma of the cervix treated exclusively by irradia tion F Voltz Klin Wchnschr 1925 it 1396

The effect of radiation on Philipp s virulence test in cervical carcinoma Zacherl Arch I Gyraek, 1925 CCX1, 512 534

Carcinoma of the uterine cervix treated with electric coagulation and radium K H Doege Wisconsin M I

1026 XX 230 The age and the gradation of mortality of uterine can cer L Ballin Zentralbl f Gynack, 1926 l 214

#### Adnexal and Perluterine Conditions

Artificial temporary amenorrhoea in the treatment of inflammatory adnexal di ease W Flaskamp Deutsche med Wchrschr 102, li 1815

Studies on the physiology of genital hormones III The effect of ovarian fluids on the isolated heart the heart in sita and the blood pressure \ \ \ KUDRJAWZEW and A Zt chr f d. ges exper Med, 1926, M WOROBIER xlvm 75x

The female sex hormone IV Its occurrence in the cir culating and menstrual blood of the human female pre liminary report R T FRANK and M A GOLDBERGER J Am M Ass , 1926, lxxxvi 1686

The hormone of the cestral cycle II A contribution on the chemical and pharmacological characteristics of an estrogenic hormone E Laqueur P C Harr S E de JONGH and J A WIJSENBECK Deutsche med Wchnschr

1926 lu, 4 52 The demonstration of an ovarian hormone in an aqueous

solution B ZOVDEK and B BRAHN Klin Wchnschr 1925 14, 2445 A specific inhibitory hormone of the corpus luteum 115 contrast with the female sex (follicular) hormone G N

PAPANICOLAOU J Am M Ass 19 6 lxxxvi 1422
Atretic follicles in the ovary of the rat mouse and

rabbit, with special reference to the significance of the hasement membrane in determining the source of origin of the interstitual cells W V WILKERSON Bull Johns Hopkins Hosp Balt 19 6 xxxviii 339 The report of a case of a congenital tubo-ovarian inguinal

hernia and deep iliac adenitis on the left side Bropier Bull et mem Soc d chirurgiens de Par 1926, xviii

The importance of the blood sedimentation rapidity in the conservative treatment of adnexal inflammations N CULOR Zentralbl f Gynael. 1926 l 362 Scierocystic ovaritis Thévenard Bull et mém Soc

d chirurgiens de Par 1926 villi, 245

A life threatening intraperitoneal hamorrhage from the ovary P Klein Zentralbl f Gynaek 1926 l, 111 The treatment of ovarian hamorrhages by ovarian transplantation P SIPPEL Zentralbl f Gynael, 1926

99
Examination of the adners and operative intervention on the ovaries in disturbances of menstrual function W HANNES Zentralbl f Gynael 1926 l 105

Ovanan grafts I JIANU and T NETTA Rev de chir. Bucharest 1025 TV11 171 The ovarian graft and its application to treatment in

clinical cases V PETTINIEI Gynéc et obst 1026 xiii [217] The technique of ovarian transplantation P SIPPEL Muenchen med Wchnschr 1926 lexiii 155

An ovarian cyst free in the peritoneal cavity of three months-old infant R W BOLLING Ann Surg 19.6 lxxxui 546

The origin and development of bone formations in the ovary H E V Voss Arch f path Anat 1925 cclviii

An ovarian stone simulating a ureteral calculus L HERMAN J Urol 1926 XV, 486

Krukenberg tumors of the ovaries W Shaw Proc Roy Soc Med Lond 1926 xix Sect Obst. & Gynæc

A specimen of endothelioma of the ovary (with the report of the Pathology Committee) W Mck H Mc Cullage Proc Roy Soc Med Lond 1920 XIX Sect

Obst & Gynac. 103

A serous form of venous septicemia and thoracocervical phlebitis in a woman with ovarian cancer death from pul monar, embolism P Merklen R Forcin and A Apor Bull et mem Soc med d hop de Par, 1926 vill,

A discussion of oviduct insuffication based on a study of 400 cases A J Royer Am J Obst & Gynec . 10 6 x1 616

An apparatus for tubal insufflation L LAURENTIE and C Moussalx Bull Soc d'obst et de gynéc de Par 1926 XV 2 5

Bilateral gonorrhoeal salpingitis in a child three days after the initial infection. M JOANNIDES J Am. M Ass General considerations on the treatment of chronic

248

1026 lxxxv1 1518

salpingo-ovaritis A LAURENTIE Rev franç de gynéc et d obst 1926 xx1 230 Herniz of the tube the ovary and the uterus PETIT DE LA VILLEON Bull et mém. Soc d chirurgiens de

Par 1926 XVIII 249 The report of a case of torsion of the pedicle of a hydrosalpinx. Pireaux Arch med belges 1926 lxxix

Simultaneous rupture of both fallopian tubes PRINCE TEAU and MAGNAN Bull Soc dobst et de gynée de Par 1926 XV 55 [218]

Report of a case of actinomycosis of the tubes and ovaries J W Draper and W E Studntford Jr Am J Obst & Gynec 1926 x1 603

Nodules and cysts in the tube J SCHIFFHANN and II STEINER Zentralbl f Gynack 1926 1 258 A case of cysts of Gartner's canal PAVLOS and PET RIDIS Bull Soc d'obst et de gynéc de Par 1926 zv 218

### External Genitalia

Cancer of the vulva E D TWYMAN and D C NELSON Missouri State M Ass 1926 xxiii 165 Widespread secondary growths from vulval cancer A

E CHISHOLM Lancet 1926 CCT 977 Retention of urine due to an imperforate hymen. M

NASIRUDDIN Indian M Gaz 1026 Iti 232 A clinical pathological and anatomical contribution on ostelimacteric colpodystrophy Flavau and Herzon

Arch i Gynaek 1925 Cvvvii 113 Biological phenomena of the virulence of the vaginal flora Louros Min Wehnschr 1026 v 143

The question of lactic acid formation | Polovsky Zentralbl f Gynack 1026 1 180

The resorption capacity of the vaginal tissue for chemical substances and its relation to the general constitution A LOESER Zentralbl f Gynaek 1925 złaz 2824

Mercury poisoning from the vagina B Liter Monats-chr I Geburtsh u Gynael 1926 Ixii 47 B LUEGNER

Benign polypi of the vagina in infants a report of two cases G I STRACHAN Proc Roy Soc Med Lond 1926 xiv Sect Obst & Gynac 78 technique for the operative treatment of rectocele

B P Warsov Edinburgh M J 1926 n s xxxiii Edin burgh Ohst Soc of [219]

#### Miscellaneous

Biology and pathology of the female A handbook of gynecology and obstetrics J Halban and L Serrz Vol Part 17 Syphili ulcus molle and parasitic diseases of the skin of the external genitalia R. MATZENAVER Diseases of the pelvic connective tissue E Martin Diseases of the walls ligaments blood vessel and nerves of the female genital organs H FREUND 1925 Berlin Urban & Schwarzenberg

The causation of gynecomastia (mammary feminism) F P WEBER Lancet 1926 ccr 1034

Sterility V BONNEY Brit M J 1026 1 783
Sterility among hybrids F N WALKER Canadian

M Ass J 1926 xv1 661 Preclinical evidence in gynecology I F Frost J Med Soc N Jersey 1926 xxiii 212

Some observations on purely trophic and functional disturbances P PETIT DUTAILLIS Gynécologie 1926 xxv T 2Q

Axial rotations a contribution to the explanation of their origin B TENCEHOFF Zentralbl f Gynaek 1925 xlix 2827

Is the function of the internal female genitalia effected by weather conditions R JOACHIMOVITS Wien med Wchnschr 1926 lxxvi 193

Ovulation roenstruction and related phenomena in mammals with special reference to the woman I B GATENBY Insh J M Sc 1926 p 255 An unusual menstrual complication P Zadik Klin

Wchnschr 1025 IV 2257 Menstrual recurrences of herpes R BLUM Zentralbl

f Gynaek 1026 l 540 The treatment of menstrual disorders

Therap Gaz 1926 1 315
The radiotherapeutic menopause its significance and management J A CORSCADEN Am J Obst & Gynec

1026 II 803 The treatment of leucorrhoea E PUPPEL Zentralbl f Gynack 1926 1 168

Biological ideas and methods in the treatment of leucor rhoea A. LANDEKER Arch f Gynaek 1925 CXXV 420

The lactic acid treatment of leucorrhoss H Naujous and B BEHRENS Zentralbl f Gynack 1926 1 160 A social indication in gynecology W Benthin Zen trallof f Gynael, 1926 l 194

Psychotherapy and diseases of the female Von Wolff Ztschr f Geburtsb u Gynack 1925 luxix 443 The limits of gynecological psychotherapy B LIEGNER

Zentralbl f Gynaek 1976 I 274 The value of the colloid lability reaction in gynecology

A vov PROBSTNER Zentralbl f Gynaek 1926, zliv The significance of the blood sedimentation reaction for

gynecology G FROMMOLT and L MOTILOFF Zentralbl f Gynael 1026 1 348 Our experiences with reference to the value of the blood

sedimentation reaction in gynecology O Silzer Zentralbl f Gynack 1926 1 353 Milk injections in gynecology and obstetrics G GELL

HORN J Indiana State M Ass 1925 RIT 229 The treatment of pelvic infections with an analysis of 1 to5 cases T If CHERRY Surg Cynec & Obst 1926

xlıı ó∞ The results of diathermy in pelvic infections T II CHERRY J Am M Ass 1926 IXXVI 1745
Treatment of gonorrhoea in women M Y DARNEY

South M J 1926 xix 357
Caruncle of the female urethra J C O Day Internat

Med & Surg 1926 XXXX 195 On the need for a urological department in every gynecological clinic H HALSTED and I WILE'S Am I Obst &

Gynec 1026 zi 664 Heterotopic endometroid growths H STEICHELE Muenchen med Wchnschr 1925 Ixxii 2141

The treatment of carcinoma of the female genitalia THEREABER Arch f Gynaek 1925 CXXV 526 534

The choice of an anaesthetic in gynecology E Forgue

Bull Soc dobst et de gynéc de Par 1926 vv 270 Spinal analgesia P DELMAS Bull Soc dobst et de

gynéc de Par 1926 xv 267 Spinal angsthesia in a gynecological clinic DE ROUVILLE and Manoy Bull Soc d'ohst et de gynéc de Par 1926

The influence of the vermiform appendix on gynecolog ical surgery R.S STATHAM Brit M J 1926 i 821

Infection of the abdominal incision incidence in 500 ynecological Iaparotomies C Macfarlane Am. J Obst & Gynec 1926 x1 630

#### OBSTETRICS

#### Pregnancy and Its Complications

Biology and pathology of the female A handbook of vnecology and obstetrics J HALBAN and L SEITZ Vol VI. Part 18 Normal and pathological conditions of the placenta and amniotic fluid H HINSELMANN pathology of the decidua the membranes, and the um bilical cord H R SCHMIDT 1925 Berlin, Urban & Schwarzenberg

Lactic acid formation in the living human placenta and the human ovary A LOESER Zentralbl f Gynael, 19 6,

Studies in the reactions of pregnancy according to Dienst W Vogel Zentralbl f Gynael, 19 6 1 517 The blood pressure and urinary findings in 100 cases of

normalpregnancy F A FAUGHT Am M Obst & Gynec 1026 Xi 633 Urobilinogenuria in normal and ectopic pregnancy W

SCHILLER and I ORNSTEIN Ztschr f Geburtsh u Gynael . 1025 luxur, 352

Blood changes in the antepartum and the postpartum period of young mothers I HANDELMAN A Rose and P SHERWIN Arch Int Med , 1926 XXXVII, 725

The adrenalin blood pressure curve and the vagotony of pregnancy H Eufinger and L Heimannsberg Monats

schr f Geburtsh u Gynaek, 1926 leni, 9 The agglutination stimulating effect of adrenalin and the vagotony of pregnancy B VARO Zentralbi f Gynael ,

1926, [ 291 Pregnancy in a double uterus J W BRIDE Brit M J

1926 1, 868

A didelphic uterus with a single vagina retention of the lacerated fetus in the left uterus V Riche Bull Soc

d obst et de gynéc de Par , 1926 xv 248
Ectopic pregnancy S F Wildman J Ohlahoma State M Ass 1026 TIX 117

Extra uterine pregnancy A KUNCZ Zentralbl f

Gynael 1925 xlix 2007 The etiology of interstitual pregnancy Schmitt Arch

f Gynaek, 1925 CXV 494 499
The question of decidua formation in the gravid tube
R ZIMMERMANN Monatsschr f Geburtsh u Gynaek

1926 lxx11, 30 Ovarian pregnancy following operation for a tubal

pregnancy on the same side M KUPPER Zentralbl f Gynaek, 1925 xliv 2241 Extra uterine pregnancy associated with portio car

cinoma J Batisweiler Zentralbl f Gynack, 1926, The question of rectal examination by midwives H

BAUMM Muenchen med Wchnschr, 1925 Ixili 2058 Experiences with chloroform inhalation in weakening of the fetal heart tones L WILLKOMM Muenchen med

Wchnschr 1925 lxxii 188 Colostrum secretion in pregnancy and gynecological diseases L Ballin Zentralbl f Gynack 1926 1 278

General remarks concerning the changes and disturb ances associated with pregnancy B ASCHNER Deutsche med Wchnschr 1926 lii 100

A case of pregnancy complicated by ureteral calculus C S L ROBERTS Proc Roy Soc Med Lond, 1926 xiv Sect Obst & Gynac 77

Torsion of the right tube by a cystic parovarian tumor in the fourth month of pregnancy laparotomy, delivery at term FERRARI Bull Soc d'obst et de gynéc de Par 1926 XV, 231

The report of a case of life threatening corpus luteum hæmorrhage associated with intra uterine pregnancy M DOLYNSKYJ and I BENZION Zentralbl f Gynaek 1926,

Dermoid cysts of the ovary incarcerated in the course of pregnancy Costantini Vergoz, and Ferrere Bull Soc d obst et de gynéc de Par , 1926, xv, 230

Four cases of chorea in pregnancy observed in Palestine C JAKOBY Zentralbl f Gynael 1925 tliv, 2897

Diabetes and pregnancy S STROUSE and P A DALL Med Chn N Am, 1926 1x 1491

Reus of pregnancy J MALFATTI Monatsschr f Ge burtsh u Gynack 1920, lxx11 24

Chronic appendicitis becoming painful in the course of a pregnancy of six months Costantini and Vergoz

Bull Soc d obst et de gynéc de Par, 1926, xv, 229
Excessive vomiting of pregnancy L A CALKINS Vir ginia M Month, 1926 lili 78

The endocrine basis of permicious vomiting in preg nancy W Dickson Practitioner 1026 cxvi, 365

Glucose and insulin in the treatment of the vomiting of pregnancy E L king J Am M Ass 19 6, lxxxvi 1417

Albuminuric retinitis of pregnancy J C Douglas and W R. GRIFFITHS Med J Australia 1926 1 545 The active prophylaxis of eclampsia L Serra Arch

f Gynaek 1925 CXXV 653 664 Laboratory aids in the diagnosis and control of eclamp sia H A Stephenson California & West Med 1926

xx1v, 484 The etiology of eclampsia P O Sundin California &

West Med 10 6 121V 652 Investigations regarding the calcium ion concentration of the blood in puerperal eclampsia R von Bono and

S LIEBMANN Arch f exper Path u Pharmakol 19 5 Civ, 178
The treatment of eclampsia R G MORGAN Brit M J, 1926 1 830

The late follow up studies of eclampsia patients DoeperLein Arch f Gynaek 1925, cxxv 655

A discussion on casarean section in the treatment of placenta prævia H PAUCOT Bull Soc d'obst et de gynéc de Par 1926 xv 245 The compulsory reporting of abortions I G DEMPSEY

South M T 1026 viv. 350 Artificial abortion its indications methods and legal

aspects G WINTER 1026 Stuttgart Enke Syphilis and interruption of pregnancy A BUSCHKE

and M GUMPERT Med Llin 1926 TVII, 159 Intravenous rodine in a case of abortion complicated with septicamia B J BOLCHE Indian M Gaz 1026

Ixt 230 The treatment of incomplete abortion E PERCIVAL

Canadian M Ass J, 1926, xv1 557 Critical remarks on the question of the treatment of fetal abortion F CLAUSER Zentralbl f Gynaek 1926

1,368
Lithopædion E FASTENAU Frankfurt Ztschr f Path

Macerated premature twins with six true knots of the cord H E Miller Am J Obst & Gynec 19 6 xi,

Retention (for nearly twelve months) of a mature fetus in a uterus which is the seat of a new pregnancy (third month) S Lindquist Acta obst et gynec Scand 1925, IV, 187 [220] 250 Cancer of the cervix and pregnancy casarean section COMMANDEUR Porro s amputation radium therapy

EPARVIER and MICHON Bull Soc d'obst et de gynét de Par 1926 xv 59

Cancer of the cervix with pregnancy byst rectomy in the fourth month end result MICHEL FRUHISHOLZ and MATHIEU Bull Soc d'obst et de gynée de Par

19 6 tv 106 The occurrence of chorio-angiofibroma (chorio angioma) a study of 600 placentæ R S SIDDALL Bull Johns Hop kin Hosp Balt 1926 vxvviii 355

#### Labor and Its Complications

Biology and pathology of the female A handbook of vnecology and obstetrics J Halban and L Serrz Vol VII Part 16 Normal labor H SELLHEIM Multiple pregnancy and labor E ENGELHORN 192, Berlin Urban

& Schwarzenberg Pituitrin or hypophyseal extract? E A Revêde Corner

Gynéc et obst 1926 111 2,6

The clinical value of preparations of the posterior hypophysical lobe K TAUBER Wien, Llin Wchnichr 1925 XXXVIII 1377

The use of pituitrin in obstetrics E H LINFIELD New Orleans M & S J 10 6 lexvin 733

Rupture of the uterus following the administration of pituifary extract J G SHERRILL Surg Gynec & Obst 1926 zlii 657

A new method of stimulating pains C J Gauss Zen tralbl f Gynaek 1926 1 13

Clinical experiences with methods of stimulating pain particularly with gynergen HOERNE Arch f Gynael. 1925 CUXV 356 365

Experimental tudies of methods of stimulating pain with particular reference to gyner en \ Zonn Arch f

Gynael, 1925 CXXV 359 365 A critical estimation of uterine stimulation N Temes

váry Arch í Gynaek 192 cxxx 362 365 Postpartum hæmorrhages after the use of uterine stim ulant Neu Arch f Cynack 19 5 cvv 360 365
The respective indications for the high route and the

low route in parturition at term P DELMAS Rev argent de obst y ginec 10 5 18 41 Labor without pain R H ALCORTA Clin y lab 1926

XII X77 The tetal force in the mechanism of labor the concept of the potential energy of the fetus J A BERUTI Rev

argent deobst y ginec 1924 17 407 The principles of the technique of the second stage of labor T B DELEE Surg Gynec & Obst 1026 vln 701 Common difficulties in labor met with in general prac-

tice H R ANDREWS Lancet 1926 ccx 970 Management in difficult labor H L WOODWARD Cin cinnati J M 19 6 vii 136

Forceps problem and the clinical training of the practitioner F EBI RHART Arch f Gynael, 1925 CXX 590 Modification of the midwifery forceps J H FERGUSON I'dinburgh M J 19 6 as vevai Edinburgh Obst Soc 78 Brit M J 1926 1 850 The importance of so-called axis traction in the forceps

operation Wichmann Arch f Cynael 1925 CXXV 504 Brow presentation J Gossip Brit M J 1926 1 ,84 Brow presentation Marrius Arch f Ganack to \$

**σττν** 6∞ The indications for bringing down the feet in labor JEANNIN Med Press 1926 n s exx1 393

Our experiences with Gwathmey's method of inducin, anesthesia during labor I SCHIFFMANN and W SEVEERT Wien klin Wchnschr 1926 xxxix 131

Obstetrical analgesia by means of morphine magnesium sulphate and re tal ether G B Byrn South M & S 10 6 lxxxv111 203

The theoretical basis of yner, istic obstetrical narcosis and its practical importance E Vogr Zentralbl f Gypaek 1926 1 65

Spinal anaesthesia in obstetrics A Roung Bull Soc dohst et de gynéc de Par 1926 tv 2 8

Spinal anasthesia in clinical obstetrics Mado. Bull

Soc d obst et de gynéc de l'ar 1926 🕏 260 Spinal analogsia and inversion by internal maneuvers
P Delmas and J Coll de Carrera Bull Soc d obst et

degynéc de Par 1926 vv 263 The mechanics of birth injuries their cause and prevention J W Newman and W E Levy Am J Obst &

Gynec 19 6 %1 645 The occurrence of brain pressure and its effect upon the

fetal heart sound during labor P Esch Monatsschr f Geburtsh u Gynnel. 1025 ltiv 308 Acase of central rupture of the perineum, A G E NAY

LOR Med I Australia 1926 1 5.0 The question of lessened resistance to bleeding in the third stage of labor K ATZERODT Zentralbl f Gynaek 1026 1 465

CXXV 305

Pseudo-osteomalacic pelvis death of the fetus amniotic miection threatened uterine rupture Porro operation recovery J E Houel and H Janes Bull Soc dobat et de gynéc de Par 1926 vv 234 A parametricab cess perforating during labor P BRAU

Zentralbi i Gynaek 1925 zliv 2003 Surgical obstetrics C L BONEFEED Cincinnati J M

1926 VII 13 Subcutaneous symphysiotomy in a case of great dis-

roportion S G MARRUZ Rev de med y cirug de la Habana 1926 TXXI 175 Two cases of symphysiotomy by Zarates method for dystocia of the altercoming head A Bringest Buil

Soc d'obst et de gynéc de l'ar 1926 v. 216 Casarean section under local anasthesia C O McCon MICK J Indiana State M A s 1926 TIX 198

Casarean section for eclamp in \$ Liebuary Zen traibl I Gynaek 1926 I 414

Enucleation of the ovum in a cusarean operation C
FOURNIER Press med Far 1926 VXIV 421

The technique of transperitoneal casarean section

POLAE Sorg Gyner & Obst 1926 thi 551 (221) Spontaneous delivery after crearean section and sym physiotomy R Bechry Bull Soc dobst et de gynéc de far 1986 Xv 243 The conduct of labor after convergence an section A H GLAD-

DEN JR Am M Obst & Gynec 1026 v1 64 Three common causes of maternal mortality

DENORMANDIE BOSTON M & S J 1926 CTCIV 963

#### Puerperium and Its Complications

A case of postpartum uterine inversion Pavios and PETRIDIS Bull Soc dob t et de gynée de Par 1926 xs

Postpartum cotyledon retention infection and uterine hemorrhage removal of cotyledon abscesses of utenne wall hysterectomy phlebitis recovery LE LORIER Bull Soc dobst et de gynéc de Par 1926 xv 217
Postpartum convul 1015 E C FAILSTY Edinburgh

M J 1926 ns venn Edinburgh Ob t Soc 71 Puerperal eclampsia in swine J Lyeldbjero Berl

tieracrati Wehnschr 1925 vil 821 865 Rectal and vaginal examinations and the prophylaxis of puerperal infection W FUERST Arch f Gynack

Puerperal fever III A comparison of the incidence of skin reactions of torins from hamolytic streptococci from puerperal and scarlet fever A F LASH J Am M Ass 10 6 18XV1 1427

A case of subacute puerperal septicæmia due to bacillus perfringens P Teissier E Rivalier and R Thurer Bull et mem Soc méd d hôp de Par 1926 din 596

Two cases of puerperal fever R Swver Lancet 1926

Puerperal sepsis—report of cases of intrapartum infections M B Savage Virginia M Month 19 6, hi 74

A case of puerperal streptococcal septicæmia with sequestrating osteitis of the right pubic bone E Bovi Acta obst et gynec Scand, 1925 ii, 183 [222]

A new procedure for the treatment of severe puerperal infection Kirstein Arch f Gynack 1925, CXX, 399

#### Newborn

Marked differences in twins and the causes of their development T Brandess Monatsschr f Gehurt h u Gynaek, 1925 Ixxi 249

The transitory cyanosis of the newborn M TRAUGOTT

Zentralhl f Gynack, 1926 l 50

Injections of adrenaling the heart PLOOS VAN AUSTEL and DE BRUINE Wuerzh Ahhandl a d Gesamtgeb de

Med 1925 111,81

Intracardiac injections of adrenalin in the resuscitation of apparently dead newborn children S vow WACHEN FELDT Monatsschr f Gehurtsh u Gynael. 19 6 laxii 78.

Two neonatal deaths T E Francis and A B SLACK Brit M J 1926 1 866

Congenital absence of bones in two male infants H H
PERLIAN and L S COMEN Atlantic M J 10 6 XXIX 541
Cleidocranial dissostosis W NETTESHEIM Monats

schr f Gehurtsh u Gynaek 1926 Ixui, 159
The treatment of obstetrical separation of the epiphyses of the humeral head J M Jorge Res Soc argent de

nipiol y pediat 19 5 1 304

Traumatic intra uterine injury of both forearms K
Fiva Zentralhi f Gynael 19 6 I 455
Anterior luxation of cervical vertebrae during labor

E HARLOFF Deutsche med Wchnschr, 1923 li, 1786

Intra uterine amputation of the left leg W. Hornsby Brit M J 1926, 1 805 A case of phocomelus C. Doerffer Monatsschr f

Geburtsh u Gynael , 1926 lxx11, 195 Hæmorrhage of the newly born M LOEBER and E H

Lausov New Orleans VI & S J 1926 Ixxviii, 723

Hæmophilia in a newborn child recovery following the intravenous transfusion of 20 c cm of citrated hlood. JE HIER and GOFVARD Bull Soc d obst et de gyné. de Par, 1926 vv 233

Duodenal ulcer in melæna neonatorum etiology and healing process R L J KENNEDY Am J Dis Child,

1926 xxx1 631
The recognition of intracranial hæmorrhages of the new born by roentgen examination Schoenholz Arch f

Gynaek, 1925 cxxv 678
Carbuncle on a newborn child C Ginepro Rev Soc

Carbuncle on a newborn child C GINEPRO Rev Soc argent de nipiol y pediat, 1925 1 300

#### Miscellaneous

The oculocardiac reflex in obstetrics J Camargo Rev de gynec e d obst 1926 xx 71

The sedimentation test in obstetrics and gynecology H L Frosch Am J Surg 1926 vl 110

H L FROSCH Am J Surg 1926 vl 110

Experiences with clavipurin used intravenously in obstetrics H Stachow Monatsschr f Geburtsh u

Gynaek 19 6 Exxii 58
Clavipurin and hypophen in obstetrics R MANDEL
BAUM Med Klin, 1925 xxi 1961

Experiences with preso iodide and septo iodide in obstetrics and gynecology H Wienerse Zentralhl f Gynaek 1925 xlix 2452

The causes and prevention of maternal morbidity and maternal mortality H Jacobs Med J Australia, 19 6 1

593 Morhidity in obstetrics—its reduction by the use of mercurochrome as a vaginal antiseptic H W MAYES N York State J M , 1916 xxvi 384

Hydriform mole and hysterectomy L Deveze Bull Soc d obst et de gynée de Par 1926 xv 251

Hydatiform mole and malignant placentoma Gon-LEWSKI Bull Soc dobst et de gynec de Par, 1926 tv 253

# GENITO-URINARY SURGERY

#### Adrenal Kidney, and Ureter

Adrenalectomy in the arterial gangrene of young per ons Legiche Lyon chir, 19 6 xxiii 247

The direct roenigen diagnosis of perinephritic and para nephritic suppuration and roenigenological study of perinephritis V Révész Fortschr a d Geb d Roenigen strahlen 1926 xxxx 48

A hydatid pararenal cyst BERARD Lyon chir 1926
xxiii 22
A paranephritic tumor with intestinal obstruction

HALLER Bull et mém Soc d chirurgiens de Par, 1926 xviii 286 Studies of the inner typography of the kidney F Flous

States of the remains typography of the Runey F Flows

State f urol Chir 192, vviii 164

The physiology of the renal calyces and the renal pelvis

E Pelvinger Verhandl d deutsch Gesellsch f Urol

1925, p 6 [223]
Functional examination of the kidney J J GAZZOLO
Rev med Lat Am 1926 xi 1006

The value of Ambard's constant in hidney functional tests I you Borza Ztschr f urol Chir, 1926 xix 30

The Pre-l test of kidney function and Haberer's experiences with it F ODY Zischr f urol Chir, 1925, xviii 300. [224]

The diagnosis of horseshoe kidney W Boss Ztschr f urof Chir 19 6 xix 15 Atrophy of kidney following enervation Legueu and

FLANDRIN Arch urol de lacin de Necker 1926 v 163

Experimental hydronephrosis the effect of ligature of
the hydronephrosis the effect of desemble of

the branch of the renal arter, on its rate of development IV. Simultaneous ligation of the posterior branch of the renal artery, and the ureter on the same side. F. Hinnian and A. B. Hepler. Arch. Surg. 1926. 10. 820. [224]. The acute changes in the rabbits kindery particularly the pelvis produced by ligating the ureter. H. F. Helis.

The diagnosis of cystic degeneration of the kidneys.

J GOTTLIEB Zeschr i urol Chir 1926 xix 95

Suppurating polycystic kidney nephrectomy A Boeck Exand F Bilger J durol med et chir 1026 exi \*63

The infected kidney its physiology, pathology and

The infected kidney its physiology, pathology and treatment C L DEMING Rhode Island M J, 19 6 ix

Pyelitis in infancy a pathological study B CHOWN Canadian M Ass J 1926 Xv1 549
Staphylococcus infections of the kidney P W Ascus NER Am J Surg 1926 xl 99

The present method of dealing with kidney and ureteral stone S Highshift Virginia M Month 1926 in 197 Medical diathermy in kidney diseases G Kolischer and A E JONES J Am M Ass 1926 IXXVI 1606
Exposure of the kidney by the thoraco-abdominal route

B FEY Arch urol de la clin de Necker 1926 v 169 The surgical treatment of nephritis A DAMSER J

durol med etchir 1926 xti 203

A case of chronic painful nephritis with oliguria treated by double renal decapsulation R DARGET J d urol med et chir 1926 txi 252

The surgical treatment of acute pyonephrosis SANTY

Lyon chir 1026 viii 266 Renal decapsulation in bichloride of roercury poisoning E R DENNY J Indiana State M Ass 1926, xiv 186

Nephrectomy for tuberculosis after ure teral catheteriza tion through the open bladder PTLLET J durol med et chii 1926 xxi 256

Malignant tumor of the kidney embryonic in origin II W Mckay and L C Topp South M & S 1926

1xxxviii 277 Carcinoma with hamaturia a case report showing the consequences of pyelography \\ G SCHULTE California (224)

& West Med 1926 TRIV 657 Congenital mega ureter Cournouris Lyon chir 1026 XXIII 236

Mega ureter and renal lithiasis GAVET Lyon chir 1026 XXIII 224

A ureteral kink simulating calculus and leading to marked ureteral dilatation L GREEVE J Urol , 1026 gv 483

Fragment of a ureteral sound lost in the oreter and re moved by hypogastric cystotomy L. Strouthger and J. Blum J. durol med et chir 1926 xxi 347.

Renal compensation in cases of ureteral calculus. O.

MERCIER J d'urol méd et chir 1926 xxi 238

Dilatation of the ureter with rubber bags in the treat
ment of ureteral calculi R L DOURMASHERY J Urol 1026 TV 449 12251 Accidental section of the ureter in the course of a hys

terectomy for cancer simple ligature uncomplicated recovery G Migniac Bull et mem Soc nat de chr. 1025 1 088 1925 1 988 The results of a ureterorrhaphy at the end of nineteen

years BOUCHARD and LAQUIÈRE J durol méd et chir,

#### Bladder Urethra and Penis

The innervation of the bladder a physiological and clinical study of the subject. Il DENNIG 1020 Berlio Springer

A case of extraperatoneal rupture of the bladder Lu TUAD Bull et mem Soc d chirurgiens de Par 1926 TV111 186 Two cases of diverticulum of the vertex of the bladder

Uzac J durol méd et chir 1926 xx1 248 A diverticulum hernia of the bladder II W JONES and McA Moose Mil Surgron 1926 lviii 508

Substitution of the sigmoid flexure for a chronically con tracted bladder P STRASSMANN Ztschr f Urol 1925

The bladder as a focus of infection in old age. M. W. THEWLIS Am Med 1926 XXXII 309

Syphilis of the bladder A RILEY Boston M & S J 1026 CXCIV 874

Vesical calculi E B GILLETTE Ohio State M XXII 319

Ovary bladder fi tule R FRONSTEIN and M SSERD IUKOFF Ztschr f urol Chir 1926 xiv 102 A case of papilloma of the bladder with interesting sur gical and postoperative complications F E DuBois N Nork State J M 1926 xxvi 388 Congenital diverticula of the urethra J E Halper

STEIN Ztschr f urof Chr. 1926 xiv 79 Chronic urethritis? A frequent factor in diagnostic error W S PEGH Am Med 1926 YXXII 303 A hollow sound useful in the treatment of periurethritis E RUFEL J Urol 1926 xv 503
A one stage operation for the radical cure of certain

cases of hypospadias P MATHEET Bull et mem Soc nat. de chir rozó lu 302

The treatment of carcinoma of the penis with endo thermy with a method of treatment of metastatic malig nant lymph glands report of a case II A KELLY and G E WARD Surg Gynec & Obst 1926 xl11 712

#### Genital Organs

Syphilis of the prostate W II HAINES J Urol 1926 Two cases of calculus of the prostate MAISONNET

I derol med et chir 1926 txi 350 Prostatic calculi removed through the urethroscope

Le l'un and Legueu J d'urol méd et chir 1926 xxi Prostatic obstruction as seen by the general surgeon.

E S BOICE South M & S road luxum 282 Transsacral block ideal for suprapuble prostatectomy L E LIKES Am. J Surg 1926 xl 100

Observations bearing upon the operation of prostatectomy I Conten E C Dodds and C H S Webb Brit. J Surg 1926 xiii 656 [225] 2251

Prostatectomy in one stage in a patient with severe diabetes E Parin I durol med etchir 1926 xxi 258 Instrument for division of the intravesical prostatic diaphragm after prostatectomy Mariov J durol med

et chir 1926 xxi 272 A prostatic bag T R Barry J Am. M Ass 1926 IXXXVI 1437 An instrument for introducing harmostatic bars in supra

pubic prostatectomy E O SWARTZ J Am M Ass 1926 lvxxvi 1518 Cathetenzation of the ejaculatory ducts If C Roll

NICK Surg Cynec & Obst 1926 xlii 667 Ligation of the vas in prostatics [ ] Sturziv Deutsche med Wchnschr 1925 li 2124

The question of vaso-orchidostomy J J Sturzin Zentralbi f Chir 1926 lill 264

An uousuul case of syphilitic epididymitis M B PAROUNAGIAN and J WITTENBERG Med J & Rec 1926

exxiii 648 The evolution of the testicles of the bull after crushing of the was deferens E RETTERER I durol med et [226] chir 1026 XXXI 14

The treatment of testicular ectopy P BARBARIN Paris

chir 1926 tviii 74 Two cases of malignant tumor of the testicle D F

BENTLEY JR J Urol 1926 XV 476
Sarcoma of the testis P DELITALA Rassegna internaz dichn e terap 1026 vii 08

Modification of the standard operations for hydrocele S W MOORREAD I Urol 1026 XV 467

Principal operative procedures in varicocele the choice of Parona's operation P Masini Paris chir 1926 XVIII

#### Miscellaneous

Recent advances in urology D N EISENDRATH Illi nois M J, 1926, xlix, 406

The importance of a study of the constitution in urology A I MARTYSCHIYNZ and D E LEWANT Zischi f urol

Cbir, ro26, xix, 28

A hitherto undescribed cause of impotence in the male M HUIHNER Med J & Rec , 1926 CXXIII, 651 Preclinical signs and symptoms of disease of the genito urinary system T S Thomas J Med Soc N Jersey,

1026 XXIII, 215 Radiography in urology with the aid of lipiodol LE FUR Bull et mem Soc d chirurgiens de Par, 1926, x, 111, 143

A modified shadowgraph ureteral catheter L HERMAN

J Urol , 1926 TV, 478

Diseases of the gentic urinary tract in children a review of the literature from January, 1925, to January, 1926 R D HERROLD Am J Di Child 19 6 exxi 563 Polyuria in a 4 year old child J D Laus Atlantic

M J, 1926, TXIX, 543

Nocturnal incontinence of urine in the child P Bazy Med Press 1026, n s cxx1, 355

Sacrolumbar laminectomy in the treatment of retention and incontinence associated with spina bifida occulta

LEGUEU J d'urol méd et chir 1926, xxi, 271 Genito urinary complications in the lesser degrees of

portal hypertension G Poter I durol med et chir 1926 11, 193 A method of passing a way tipped catheter through the

cystoscope without making a scratch R S MALLARD Surg Gynec & Obst , 10.6, thi, 716

Efficient suprapubic suction drainage H H CHE Surg, Cynec & Obst 19 6 vlii, 713

Hamorrhages from the urmary organs K KUEMMELL SR Deutsche Ztschr f Chir 1925, excii 143

Sera and vaccines in the acute complications of gonor rhoea S CHAUVET Rev med de Sevilla 1926 xliv 22 Gonorrhora and its sequelæ in the male V N B

WILLIS Med J Australia, 1926, 1 539

Hortelour s resection of the perineum for complicated gonorrhocal strictures P Bazy J durol med et chir

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

#### Conditions of the Bones Joints Muscles Tendons Etc

Osteomalacia in children a study of the mineral metab olism H L DWYER and O S ECKELBERRY Am J

Dis Child 1926 xxxi, 630 Osteopsathyrosis and rickets a clinical and antiomical study of a case of osteoporotic rickets P GRYNFELTT

and M Van Neck Arch franco belges de chir, 1926 r xixx Bone infections A Myers Virginia M Month, 10 6.

lui irc Abscesses of the bones ARROU Bull et mem Soc nat

de chir, 1926, lii, 371
Osteomyclitis M L KLINEFELTER South M J, 10 6, xix, 347

An experimental study of osteomyelitis produced with

colon bacilli A MERLINI Ann ital dichir 1926 v 227 Osteomyelitis of fifty six years duration G B W WALKER Lancet 1026 CCV 908

Acute osteomyelitis in children C E FARR Ann Surg ro26 Ixxx111, 686

A case of generalized fibrocystic disease of the bones R C ELMSLIE Proc Roy Soc Med Lond, 1926 XIX Sect Orthop, 34 Recklinghausen's disease and bony dystrophy Tixier

Lyon chir 1926 xxiii 2r9 Generalized fibrous osteitis Recklinghausen's disease

TAVERNIER Lyon chir, 1926 xxiii 255

A case of cystic fibrous esteitis of syphilitic origin with multiple localizations BERARD Lyon chir, 1926, xx111, 258 Multiple exostoses T P WILLIAMS Proc Roy Soc

Med Lond, 1926 x1x, Sect Study Dis Child, 46 Muscular bernia due to spontaneous rupture of the aponeurosis in a diabetic LAIGNEL LAVASTINE and R VALENCE Bull et mem Soc med d hop de Par, 1926

The treatment of spastic paralysis in children H A T

FAIRBANA Brit M J, 19 6 1 776
Evostosis bursata A Abramowa Zentralbi f Chir IQ25, lu. 2640 12281 Arthritic purpura and pancreatitis following mumps R E WILSON Brit M J, 1926, 1 783

A case of arthritis with multiple subcutaneous nodules Lond 1926 ux, Clin Sect. 36

Lax joints and snapping joints R Lozano Rev de

cirug, Buenos Aires 1926, v, 97 A case of multiple deformities D McC AITKEN Proc

Roy Soc Med Lond, 19 6 viv, Sect Orthop 37 Malformations of the lower part of the body SERBUKOFF Gynéc et obst , 1926 viu 264

A case of wrist drop in a child G A SUTHERLAND Proc Roy Soc Med , Lond , 1926 xiv Sect Study Dis Child 48

Severe laceration of the hand with traumatic amputa tion of two inners M J Lore J Am M Ass, 1926 LOCKVI, 1345

Dupuytren's contracture of the palmar and plantar aponeuroses P Cokkalis Deutsche Ztschr f Chir [228] 1926, CYCIV 256 A case of scaphoid scapulæ P B ROTH Proc Roy

Soc Med Lond 1926 xiv Sect Orthop 3 Snapping shoulder GULEKE Arch f klin Chir 1926,

CXXXIX 106 Malignant tumor of the lower portion of the scapula

partial resection of the scapula PATEL Lyon chir 1026. Injuries of the spine S R CUNNINGHAM J Oklahoma

State M Ass , 1926 TIT 124 The diagnosis in diseases of the vertebral column C

M F SINDING LARSEN Acta radiol 1926, v 207 Syphilitic periostitis of the cervical vertehræ and right clavicle L C MONTGOMERY Canadian M Ass I

1926 XVI 563 The scohosis problem the rest cures for scohotic pa

tients J FRAENAEL Muenchen med Wehnschr, 1925. lxx11, 2107 Osteomyelitis of the sternum A O WILENSKY and S

S SAMUELS Ann Surg 1926 lexxiii 206 [228] Unusual bone formation in the pelvis H S HUNS BERGER Radiology, 1926, VI 431

A case of tuberculous disease of the sacro iliac joint. H A T FAIRBANK Proc Roy Soc Med , Lond , 1926, VIX Sect Orthop 37

Functional impotence of the hip relieved by an artificial articulation G Bidou Bruxelles med 1026 vi 760

254

Osteofibroma of the femoral neck Soverag Zentralbl Chir 1925 lii 1880 Multilocular cystic osteits of the lower end of the femur Pairre Lyonchir 1925 xxiii 253

Acute knee joint injuries C J MACGLIRE JR Ann

Surg 1026 laxxiii 651

Displacements of the semilunar cartilages P LE BRE TOY and R M CLEAR'S Med J & Rec 1926 exxiii 570 Cysts of the semilunar cartilages report of two cases of cyst of the external semilunar cartilage and one case of cyst of the internal semilunar cartilage N Atlison and

D S O CONNOR Surg Gynec & Obst 1026 xlis 250 A case of symmetrical synovitis of the knees T. R. BRISTON Proc Roy Soc Med Lond . 1926 xiv. Sect

Orthop 31 A case of fibrous ankylosis of the knee treated success fully by manipulation P B Rotu Proc Roy Soc Med

Lond 1926 xiv Sect Orthop 32 Evulsion of the external tubercle of the tibial spine without appreciable interference with the articular function of the knee Mourner and Bruas Bull et mêm

Soc d chirurgiens de Par 1926 avan 183

Bilateral os tibiale externum with unilateral hyper trophy of the navicular E L Evans Proc Roy Soc Med Lond 1926 xix Sect Orthop 33

A case of true congenital hypertrophy of the left lower

limb A R Jones Proc Roy Soc Med Lond 1926 A Lase of bow legs D McC Affrey Proc Roy Soc

Med Lond 1925 tax Sect Orthop 47 Simple talalgia and double talalgia Bressor Bull et

mem Soc d chirurgiens de Par 1926 avitt 218
Congenital malformations of the feet Esar Deutsche Ztschr f Chir 1026 cxiv 263

Report of a case of osteochondritis of the second meta tarsal M HARBIN Chio State M J 1920 THE 408

#### Surgery of the Bones Joints Muscles Tendons Ecc

Twenty minth report of progress in orthopedic surgers R B OSGOOD V ALLISON P D WILSON H C BUCHOLZ and others Arch Sur, 1926 vii 1086

Physiotherapy in orthopedic surgers

J Missouri State M Ass 1926 xxiii 169 I A KEY

The importance of the periosteum in the oligin and treatment of pseudarthroses H Jessey Arch f klin Chir 19 5 cxxxx11 189 The value of periarterial sympathectomy in the treat

ment of osteo articular tuberculosis G ICROK Presse med Par 1926 XXXIV 435

The treatment of acute osteomyelitis O Nonphann Med klin 1920 xxii 121

Contributions on the repeneration of tendons and the treatment of tendon ruptures particularly in the region of the synovial sheaths E J VAERVI Acta chirurg Scand 1926 lx 1 [229]

Operative treatment of chronic infantile parelysis OR MILLER Kentucky M J 1926 xxiv 256
Thoracic fixations of the loose scapula P MATHIEU Bull et mem Soc nat de chir roz6 lis 383

Fixation of the head of the humerus after total extirps tion of the scapula E Polya Zentralbi f Chir 1026 liti 202

Cinematization of the forearm technique and results VILLANDRE and BOEHLER Paris chir 1026 XVIII 55

The treatment of Pott s disease in adults by osteopen osteal graits H DELACENTERE and Y DELACENTERE Arch franco belges de chir 1026 xxiv 21

A new scoliosis operation H Plageman Zentralbi f Chir 1026 lis 338

The treatment of courts with extension B CHATZ EELSONN Zentralbl f Chir 1026 lin 280

Coxa flecta treatment by refracture Lawy Bull et mêm Soc d chirurhiens de Par 1026 TVIII 220

Double osteotomy of the femora for rhizometic spondy losis Peucytez Parischir 1026 vill 80

A simple method for the correction of deformity in bony ankylosis of the hip joint L C ABBOTT and F A JOSTES

Reconstrution of the hip point disorganized by Char Cot structure of the hip point disorganized by Char Cot structure of the hip point disorganized by Char The value of short thigh stumps and the structures of artificial limbs C Ten Hown Deutsche Ztschr f Chir

1926, CECW 34

A very light prosthesis for amputation of the thigh
E SCHECHER Muenchen med Wohnschr 1926 Ixaqi

Transplantation of the biceps on the patella Nové

Tosserano Lyon chir 1026 xxiii 210 The operative treatment of reducible pes varus in the adolescent and the adult Duruy DE FRENELLE Bull et

mém Soc d chirurgiens de Par 1926 xviii 252 The operative treatment of ballux valgus T Sazepin
Zentralbi f Chir 1026 iii 134
Capsule band excision at the lateral side of the joint in
hallux valgus operations G HOFFMANN Zentralbi f

Chir 1025 III 2030

#### Fractures and Dislocations

Observations on the treatment of fractures F CHRISTO-PHER Illinois M J 1926 xlix 425
The treatment of fractures by the general practitioner

F LANGE 1925 Munich Lehmann The treatment of fractures in a casualty hospital P

CHERRY Med J Australia 1926 1 431
Some cases of osteosynthesis in children 4 Mariour Arch franco belges de chir 10 6 var 18 Fracture healing G S HARRINGTON J Am Inst

Homocop 1926 x1x 428 Eight cases of delayed consolidation and pseudarthrosis

treated by persarterial sympathectomy R FONTAINE Rev de char Par 1920 xlv 95 Nodes and abscesses at the area of prosthesis Zuz

VERTH Zentralbl / Chir 2026 lill 322 The result of a restorative bone graft sixteen years after

operation litegues Paris chir 1926 xviii 68

The report of a case of presternal sternoclavicular luxation G PARVULESCU Rev de chir Bucharest, 1925 XVI) 16

Habitual or recurrent dislocation of the shoulder T T Thomas Med J & Rec 1926, exxii 145 [229] Methods of stabilization for habitual luxation of the shoulder and patella S S GIRGOLAFF Zentralbl f Chir

1026 Ini, 139 Fixation of fractures of the clavicle another method

J E M Thouson J Am M Ass 1926 lerryi 1517
[230] Notes on fractures and dislocations of the upper ex

tremity B SMEATON Med J Australia 19 6 1 487 Active movement in the treatment of fractures of the upper extremsty J W Downen Internat J Med &

Surg 1926 XXXIT 184 Traumatic separation of the upper humeral epiphysis I Martan Rev de chir Bucharest 1925 vvii 191

Fractures of the upper end of the humerus with marked abduction of the upper fragment Dupuy DE FRENELLE Paris chir 1926 xviu 76

An unusual ununited fracture of the humerus of forty years standing R. E HUNT Illinois M J 1926 xlix

Three cases of irreducible supracondylar fractures of the elbow J Roux Rev med de la Suisse Rom . 1026

Tlv1 261

A family with six cases of congenital luxation of the radius with corresponding anomalies of the fingers and knees and in the formation of the nails in four generations R TRAUNER and H RIEGER Arch f Llin Chir 1925 cxxv11, 659

Fractures of the head and neck of the radius C W CUTLER JR Ann Surg 1926 lexxiii 26,

Complicated fracture of the forearm conservative treatment Judet and Planson Paris chir 1926, xviii

A case of partial atlanto-axial dislocation F G MUNDELL and D C L FITZWILLIAMS Proc Roy Soc Med Lond 1026 vix, Sect Study Dis Child 45 Luxations and distortions of the lower cervical verte

bræ H JANSEN Deutsche Ztschr i Chir 1026 exciv Some biological evidence obtained from a study of con

genital dislocation of hips in identical twins K HALE Ann. Surg 1026 Ixxxiii 682 Fracture of the acetabulum C I MACGUIRE IR

Ann Surg , 1926 laxxii 718

Fractures of the head of the femur F CHRISTOPHER Arch Surg 1926 x11, 1049

Fractures of the neck of the femur A TREVES Paris chir, 1926 TV111 81

A spontaneous fracture following bone banding for fractures C C GARR J Bone & Joint Surg , 1926 vill

Ununited fracture of the hip M S Henderson Ann Surg , 1926 lxxx111 606

Mechanical employment of sequestrum fracture of the femur F H Albee J Bone & Joint Surg 1926 vili 325

The treatment of old luxations of the patella by transposition of the tihial tuberosity and external repair of the capsule P MALLET GUN and J ROLLET Rev de chir, Par 1926, xlv 103

Fractures of the thigh and leg treated by osteosynthesis AUVRAY Bull et mem Soc nat de chir 10 6 lii 30

The treatment of fractures of the lower extremity M

L Scorr Vied J Australia 1926 1 485 Metatarsophalangeal luxations of the toes (except the great toe) E MOURGUE MOLINES and J VIDAL. Rev de chir Par, 1926 xlv 26

#### Orthopedics in General

Report of progress in orthopedic surgery R B Os GOOD N ALLISON P D WILSON H C BUCHOLZ and others Arch Surg 19 6 XII 1255

A modified hip rest D R Telson J Am M Ass. 1026 lxxxv1 134,

The latest developments in the structure of artificial legs ZUR VERTH Zentralbl f Chir, 19 6 lill 392 A new orthopedic shoe G GABRIEL. Zentralhi f Chir 1026 liii 80

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

#### Blood Vessels

Migration of a war projectile from the thigh to the lung I DE SAINT AVID and R LEONARD Presse roed . Par .

Intravascular migration of war projectiles a clinical and experimental study L BINET and N PEROV Presse

med Par 1926 xxxiv 530

The splanchnoperipheral equilibrium of the blood vessels and its clinical significance E F MUELLER and W F PETERSEN Klin Wehnschr 1926 v, 53
Oscillometric examination of the arteries of the limbs in

the course of Raynaud's disease H GREVET and P ISAAC GEORGES Presse med Par 1926 XXXIV, 449

A case of successful suture of the portal vein HABERER Wien med Wchnschr 1925 lxxv 2577 [232] Ligation of the inferior vena cava O G Prare Am. I

Ohst & Gynec 1926 x1 660 12321 BUIZARD Bull et mem Arteriovenous aneurisms Soc d chirurgiens de Par 1926 TVIII 134
Two cases of aortic aneurism. S Grezzi and S Buquer

An Fac de med Univ de Montevideo 1925 x 931 An unusual case of melanotic nævi H C Semon Proc

Roy Soc Med Lond , 1026 viv. Sect Dermatol , 47

# Blood Transfusion

Handbook of diseases of the blood forming organs
Hæmophilia hæmoglohinuma hæmatoporphyria A.
SCHITTENHELM 1925 Berlin Springer
Anisocytosis and increased red blood cell volume with

little or no anæmia M WARREN J Lab & Chin. Med 1026 X1 743

A critical contribution on microsedimetry O GRAGERT Min Wchnschr, 1925, 1v 2436

Passive anaphylaxis in a hæmophihac C G Millis and L. Scrury Am. J M Sc 1926 class 854 The graphic presentation of the blood sedimentation

test a study in pulmonary tuberculosis J CUTLER Am J M Sc 1926 class 882 The clinical value of the erythrocyte sedimentation reaction in surgery E H RUBIN Surg Gynec &

Obst 1026 xl11 652 [232] The acid base coulibrium of the blood and its relation to surgery F BAYMA Ann Paulistas de med e cirug

A modification of the Unger blood transfusion apparatus

H W Joves J Lah & Clin Med 1926 x1 890 Blood transfusion. B BREITVER 196

An animal experiment contribution on blood transfu sion L Rossius Arch f klin Chir 1025 CXXXVII 583 Blood transfusion in peroicious anamia H. W. Joves

J Am. M Ass, 1926 lxxxv1, 1673 Exsanguination transfusion in the treatment of mercuric

chloride poisoning C C HASKELL J R HAMILTON and W C HENDERSON J Lab & Clin. Med 1926 x1, 707

#### Lymph Vessels and Glands

An anomalous tumor of the cervical lymph nodes S ERDMAN Ann Surg 1926 lexxiii 716

A case of large lymphangioma or telangiectasis occupy ing the lower half of the left abdomen and the left leg W A MILLIGAN Proc Roy Soc Med Lond 19 6 x17

Clin Sect 35 Suppurative adenitis of the iliac glands C LLGONES

Rev Soc argent de nipiol y pediat, 1925 i 170 Lymphosarcoma H MEYERINGH Beitr z. Llin. Chir. 1025 CXXXV, 185

# SURGICAL TECHNIQUE

Operative Surgery and Technique Postoperative Treatment

Psychotherapy in surgery V PAUCHET Minnesota med 1026 1x 217

Fat from the surgeon's standpoint E MARTIN and V C BURDEN Therap Gaz 1926 1 319 Intravenous camphor infusion G Hosemann Zen

tralbl f Chir 1926 liii 394

The treatment of deep roentgen ray burns by excision and tissue shifting J S Davis J Am M Ass 1926, 12331 1xxxv1 1432 The prevention of the toxemia of burns treatment by

tannic acid olution E C Daymson Am J Surg 1926 zi 114

The paraffine treatment for burns and denuded areas D V TRUEBLOOD Northwest Med 1926 EXV 255 A method of obtaining greater relaxation with whole thickne s skin grafts J S Davis and H F TRAUT Surg Gynec & Obst 1026 xlii 710

Two cases of autoplasty by the use of a flap with a tubu lar pedicle P Motre Bull et mem Soc nat de chir

The allumin content of the serum after operation k Burger Zentralbl f Gynsek 1926 l 294 Bacteria in the blood after operations F SEIFERT Arch f klin Chir 1925 extxviii 565 [233]
The question of drainage of so called clean wounds 12331

S LION Zentralhl f Chir 1926 lin 398
Roentgen treatment of postoperative pneumonia

C FRIED Lin Wchnschr 1926 v 15 The treatment of postoperative affections of the lung particularly of the bronchus following narcosis with small doses of ether according to Bier's method H SEIDL

Muenchen med Wehnschr 1926 lvgiii 95 Very late abscesses in postoperative scars W A FISHER IR and H B STONE I Am M Ass 1026

lxxxv1 1675

Antiseptic Surgery Treatment of Wounds and Infections Primary handling and free drainage of extensive trauma

M W SHERWOOD Texas State J M 1926 xx11 36

General surgery (the study of wounds) G AXRAUSEN Fortschr d Zahnh 1926 11 29

A collective presentation of general and special surgery M KIRSCHMER and O NORDMANN Vol I Part VII The technique of suture E COHEBANDT The study of suppurative infections including generalized ceptic infections. A Buzzilo. The study of specific infections R. EDEN and P DREVERMANN 1926 Berlin Urban & Schwarzenberg

The treatment of furuncles with intracutaneous injections of the patient's blood F RUSZYNSKI. Aertzl

Monatsschr 1925 p 304
The intravenous administration of mercurochrome II H TROUT Surg Gynec & Ohst 1926 xl11 633 The use of dyes in the treatment of disease 'H H Hagan Kentucky M J 1926 xxiv 213

Resection of the nail in felons I ARCE and C M SQUIRRY Bol inst de clin quir 1925 1 262

#### Anæsthesia

Anesthesia E HAUBERRISSER Fortschr d Zahnh 1926 11 77

Some reflections on narcosis with nitrou oxide E DI SMAREST Presse méd Par 1926 EXXIV 465 Death from fulminating pneumonia after brief nitrous

oxide and the thermocautery II Wienicke Muen chen med Wchnschr 1926 lxxiii 60

The induction of anxisthesia with eau de cologne E GOHEBANDT Deutsche med Wchnschr 1926 lii 65 A further consideration of regional anasthesia II M SELDIN Dental Cosmos 1926 ITVIII 452

Spinal anaisthesia J M Silva An l'ac de med Univ de Montevideo 1925 v 909 Local anæsthesia G Fischer Tortschr d Zahnh

Local angesthesia W B MARBURY Virginia M Month 1926 lui 95

Surcical Instruments and Apparatus Sterile paper tonels for surgical wound dressings J H WOOLSEY J Am M Ass 1926 laxtv1 1612

#### PHYSICOCHEMICAL METHODS IN SURGERY

#### Roentgenology

The final recognition of radiology as a specialty H SWANBERG Chicago M Rec 1916 xlvm 144 Progress of rountgenology H F ASHEURY South

M J 1926 xix 334
One hundred milliampere three tenths of a second technique E C Jirman Radiology 1926 vi 426 Presentation of a food suitable for radiological examina tion Colombier Brit J Radiol 1926 xxxi 175 Cooling the developer J A HERRING Radiology

19 6 VI 431 The physical basis of the physiological action of \ rays
II N BEETS WISCONSIN VI J 1976 TW 213
Radiotherapy G COOPER H B SCARGIL L A
ROWDEN and J A THOMPSON Lancet 1976 CCX 909 Ready reference tables for superficial roentgen therapy H N BEETS and P A ARENS Radiology 1026 VI 424 The measurement of the roentgen dosage L GREBE

Strahlentherapse 1926 TX1 306 The question of the dosage of roentgen rays standards zation of the dose B RAJEWSKY Fortschr a d Geb d Roentgenstrahlen 1026 XXXIV 62

The iontodosimeter and dosimeter for roentgen rays with direct reading H Chaoul Fortschr a d Geb d Roentgenstrahlen 1926 xxxiv 162

The hardness of the rays filtering and the effect of dermatological radiations H T Schreus Strahlen therapie 1916 xxi 328

Protection of the tissues surrounding the field of radia tion in roenigen treatment Holzknecht Fortschr a d Geb d Roentgenstrahlen 1026 xxxiv 169 Tray therapy in treatment of malignant conditions

U V PORTHANN Wisconsin M J 1926 xxv 223
The radiation treatment of malignancy G W GRIER Am J Roentgenol 1926 Av 436

The clinical application of deep roentgen therapy W HUNTER JR South M & S, 1926 lxxxviii, 308 Two cases of cancer treated by radiation apparatus at

a distance SLUYS Le cancer, 1925, 11 128
The histological changes after therapeutic roentgen radiation in carcinoma P PRYM Strahlentherapie 1926, XXI, 319

#### Raduum

Gamma therapy SLUYS and KESSLER Le cancer 19 5

Treatment by radium emanation M R I HAYES

Med Press, 19 6 ns cvx1 351 The value of radon (radium emanation) in the treat ment of cancer D P MURPHY South M & S 10 6. lexxviii, 303

# Miscellaneous

Justification for physiotherapy A D Williamore Med Herald & Physiotherap, 1026 xlv 110

Physiotherapy in hospital teamwork N E Titus Med J & Rec , 1926 cxx111, 573 Light and its therapeutics F H HUMPERIS Practi-

tioner, 1926 cxv1 375
Some results of heliotherapy (quartz lamp) employed in a psychopathic hospital C W STONE Ohio State M J, 19 6 XXII 405 The lethal effect of ultraviolet light on normal and

malignant tissues grown in prire W Morpett Lancet 1926, CCX 907

The therapeutic value of red rays G M LEVICK Brit I Radiol , 1926 xxx1, 185

The value of concentrated arc light treatment in cases of roentgen and radium lessons of the skin A REYN Radiology, 1026 VI 457

What is the effect of diathermy? P E ROUCAYROL

J durol med et chir 19 6, xx1 234 Five cases of carcinoma treated by diathermy N PATTERSON Proc Roy Soc Med , Lond , 1926 x1x, Sect

# MISCELLANEOUS

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Clinical Entitles-General Physiological Conditions

Symmetrical gangrene of malarial origin W H SLAUGHTER J Am M Ass, 1926 Ixxxvi, 1907

The treatment of crural ulcer F LAUERBACH Klin Wchnschr 1925, IV, 2478

The mechanism and technique of active immunization ainst tumors V E MERTENS Muenchen med against tumors

Wchnschr, ro26 Ixxiii 97 Immunity to tumor growth and other experimental investigations H Chambers and S Russ I Cancer

Research 1026 x 110 Experimental production of tumor in a white rat L HERLY J Cancer Research 1926 v ro A modified white blood-cell tumor of the rat W H

LEWIS and B BRUEDA Bull Johns Hopkins Hosp, Balt, ro26 xxxviii 3,6

Changes in the reaction potential of a transplantable tumor L C STRONG J Exper Med 1926 xlui, 713 Studies on enzyme action XXXVII A further study

of the comparative lipase actions of human tumors A. G FALK and H M Noves J Cancer Research 1026 x 146 Chemotherapeutic experiments with coal tar dyes on

spontaneous mouse tumors B T SIMPSON and M C MARSII J Cancer Research 1926 x 50

Multiple subcutaneous and cutaneous tumors paros teal (?) chondromata W J OLIVER Proc Roy Soc

Med , Lond 1926 viv, Sect Dermatol 43 The causation of malignant neoplasms J LOUDON, J M McCormack and N J Howard Med J & Rec.

1026 CXXIII 567 The etiology of malignant neoplasms J Loupon I M McCormack and N J Howard Canadian M Ass J

1026 331 522 Iodine irritation does not produce cancer J Rosen

STRN J Cancer Research 1926, x 61
Concerning Gye's hypothesis of the etiology of malig nant tumors with special reference to the ' specific factor M J HARKINS J I SCHAMBERG J A KOLMER, and M KAST J Cancer Research, 19 6 x, 66

The effect of vitamin free food on the growth of mouse carcinoma and rat sarcoma F Lunwig Arch f Gynaek, 1925 CTTV 510 534

Some notes on cancer W MEXER Med J & Rec, 1926, CXXIII, 563

The technique of the serodiagnostic cancer reaction of Kabn P Shwirsky and V STRIEDTER Klin Webnschr 1026, V 100

A note on Botelho's reaction A STOUPEL L cancer.

1925 11 122 The clinical value of Botelho's reaction S Mazza Bol inst declin quir 1925 1, 264

Cancer-some of the problems connected with its control W F WILD New Orleans M & S J , 1026 lexvin

750 The immunization of cancer bearing mice S Trans J Cancer Research 19 6 x 115
Reaction types in cancer J H Cassity Med J &

Rec., 1926 CUH, 598
Compulsory notification of cancer A C Magian
C Marley Cass S W H Stuart, J Howe and others

Lancet 1926, cct, 91r
Difficulties met with in the interpretation of trends of cancer mortality H L LOMBARD and C DOERING

Boston M &S J 1926 exciv 088 The inheritance behavior of cancer as a simple mendelian recessive studies on the nature and inheritability of spontaneous cancer in mice sist report M SLYE

J Cancer Research, rg 6 v 15 [234] The mechanism of cancer metastasis M T Burrows Arch Int Med 1926 xxxv11, 453 [234]

Cutaneous carcinoma of the lower extremities C DE Cutaneous carcinoma of the lower extremities 2 122

Asis Ann Surg., 1926, 1xxxiii 663 [234]

Inoperahle sarcoma of the leg—report of a case J P

Turner and L A Clark J Nat M Ass. 1926 xviii 78 [234]

Experimental studies on the question of cancer therapy VORLAENDER Arch f Gynaek, 1925 CXXV, 507, 534 The treatment of malignant tumors and their develop

ment THIES Arch f Gynael 1925, CXXV 517, 534 The theory and practice in relation to the treatment of cancer with lead W BLAIR BELL But M J 19 6 1,687

[234] External cancer and its rational treatment J ARCE C M SQUIRRU and R C NICOLINI Bol inst de clin quir 19 5 1 269

#### General Bacterial, Protozoan and Parasitic Infections

Colna bacillosis and helminthiasis in the female V LELORIER Rev franc de gynéc et d obst , 1926, xx1 225

Fatal septicopymmia due to colon bacillus infection LAFFONT HOUEL and JAMER Bull Soc dobst et de

gynée de Par 1926 xv 236

Eryspelas \ Observations on the etiology and treat BIRRHAUG J Am M Ass 1936 bxxvi 1411

The genesis of erysipelas E Ornach Deutsche Ztschr

f Chir road excit a 6

A survey of our present knowledge of tetanus and its treatment M Nicoll V York State J M 1026 2751

Tetanus its incidence and treatment I M WAIN WRIGHT Arch Surg 1926 til 1962 [235]
Cas gangrene H A Burke Internat J Med &

Surg 1926 XVVIV 192
Actinomyco is M Buchisbaum J Indiana State M \ss 1026 TIT TOI

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reaction and the cosmophilia G Pittattica and D II Pactrico in the cosmophine of Planted and D I Pactrico inch de carded y hematol 1925 it 389 If datid cysts in children with report of three cases H W Mills Surg Gynec & Obst 19 6 din 585 The mechanism of daughter cyst formation in hydatid

disease II R DEW Med J Australia 1926 I 451

#### **Ductless Glands**

The relation of internal secretions and faults metabolism to mental perversions B C Ketster Therap Gaz 10 6 1 323

Organotherapy P Hirscn Fortsche d Therap

1925 1 497 Roentgen therapy and organotheraps of di ea es of the endocrine gland III The changing relations of the glands of internal acretion in the climacteric | Borak Strahl ntherapse 1925 xt1 31

#### Surgical Pathology and Diagnosis

The pathogenesis of death from burns H M Green WALD and H ELIASBIRG Am J M Sc 1926 clxx1 692 Lipiodol injections as a diagnostic agent T F MACK EDDIC Med J Australia 1920 1 5/7

The role and significance of the leucocytic formula in surgical diseases A SORKIN Zentralbl f Chir 1026

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The asthenic adipose state an attempt to demonstrate a new constitutional type of particular importance from the standpoint of surgery K VOGLER Muenchen med Wehnsche 10 5 levin 141

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Medical education and the hale announcement C R. STOCKARD J Am V Ass 1926 PXXVI 1308

The university surrical clinic its lunctions and organi zation D Lewis J \m \1 \155 1926 lxxx1 1403

#### Medical Jurisprudence

The medicolegal aspects of burns and scald PACE Internat I Med & Surg 1926 xxxiv 210

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## EDITOR'S COMMENT

THE rôle of infection of the gastric wall and perigastric lymphatics in the development of complications after gastro-enterostomy is discussed in two interesting papers appearing recently in the Bulletin et Mémoires de la Société Nationale de Chirurgie, one by Duval, Roux Gatellier and Moutier (p 387) and the other by Lecène (p. 386) The former authors believe that a vicious cycle coming on early after operation and gastrojejunal ulcers result from a localized inflammatory process due to extension from the ulcer site in the stomach and that a vicious cycle developing later results from adhesions and bands formed after postoperative infection. They sug gest that the absence of renewed ulceration after extensive resection may be due to the removal of the infected area rather than the elimination of the acid secreting portion of the stomach

Case's description of the roentgenographic find ings in ninety cases of diverticulum of the small intestine other than Meckel's diverticulum (p 38) indicates that this condition is not as un common as is generally believed and must be constantly borne in mind in the differentiation of gastro intestinal conditions with indefinite or perplexing symptoms. Visualization of the duo denum by the introduction of opaque fluid through an Einhorn tube as suggested by Sara cent Antonuc; and Celberti (p 38), should be of particular value in the recognition of such diverticula since more than one ore cent are found diverticulas since more than one ore cent are found.

in the duodenum

St John's presentation of a case of abdominal biliary fistula in which the fistulous tract was successfully dissected free and transplanted into the stomach (p. 380) is a striking example of a high surgical achievement. This case is of par ticular interest in connection with Seufberger and Pollwein's experimental studies on the substitution of rubber tubes for artificial defects in the bile passages reviewed in the October issue of the ABSTRACT (p. 266)

The papers of Graham (p 368) and Crile (p 369) on the thyroid gland in relation to toxic goiter and the surgical treatment of goiter are

worthy of particular attention because of the authors' very extensive experience with thyroid disease. Ladwig's follow up study of r50 cases of Basedow's disease from the surgical clinic of the University of Leipzig (p. 360) affords an interest ing comparison of the results of treatment of this condition in American and European clinics

New's discussion of surgical diathermy in the treatment of beingin lesions and new growths in the nose and throat (p 37r), and Sargnon s evaluation of the results of radium treatment of tumors of the nasopharynx (p 366) indicate the present day tendencies in the management of

these not uncommon conditions

Kolmer's studies on the treatment of experimentally produced streptococcus and pneumococcus meningitis (by 374) emphasize the value of adequate drainage as compared with the administration of sera and chemical antiseptics. That one treatment consisting of lavage of the pathway from the ventricles to the cisteria magna with from 20 to 40 cm of Ringer's solution was usually sufficient to produce a cure in experiment at animals suggests the possibility of greatly improved results in the treatment of this grave condition.

Manges description of the \u03b5 ray signs of non opaque foreign bodies in the air passages and of methods of localizing them (p 380) and the symposium of Kern, Pancoast Tucker and Muller (p 382) on lung abscess are helpful contributions to the rapidly increasing literature on the pathology symptoms and surgical treatment of infectious processes in the lung.

Cauchère and Guerin Valmale's studies on maternofetal blood reactions (p 404) indicate that transfusion of the mother's blood to the infant without preliminary compatibility tests is not

free from danger

A symposium on the surgery of the breast by klopp Billings Manges and Gibbon (p 378), and another on pyelography by Nichols Grant Eisendrath and Arens (p 409) are only two of many interesting and noteworthy reviews in the current issue of the ABSTRACT

# INTERNATIONAL ABSTRACT OF SURGERY

NOVEMBER, 1926

## ABSTRACTS OF CURRENT LITERATURE SURGERY OF THE HEAD AND NECK

#### HEAD

Jenkins G J Ballance Sir C Scott S Tweedie A R, and Others Discussion on Fracture of the Base of the Skull and the Ear Nose and Throat Surgeon Proc Roy Soc Med Lond 1026 xix Sect Otol o

JENAINS calls attention to the fact that in many hospitals the otorhinologict is not asked in make an investigation in cases of suspected fracture of the base of the skull in spite of the fact that such an examination is recognized as advisable. Before the rontine examination of the ear and no-e is made it is important to know whether there has been any chronic sensis in these regions

Bleeding from the nose in serious head injunes is commonly due to fracture of the base of the skull but may be the result of an intrinsic injury of

the nose

When there is destruction of the labyrinth a lesion of the lower neuron of the seventh cramal nerve severe bleeding or a flow of cerebrospinal fluid from a torn tympanic membrane or from a wound of the meatal wall there to little doubt that a fracture of the base of the skull has occurred

Injury of the seventh cranial nerve to common It is not unusual for the paresis to increase for two

or three days after the accident

There may be a fracture involving the bony external auditors meatus without rupture of the tympanic membrane or membranous meatus. In such cases the line of fracture may be indicated by a swelling Sometimes the swollen area is discolored Occasionally the bleeding is very slight and the break in the wall impossible to find but usually a bons injury will be indicated by the swelling and distortion

In fracture involving the ear with no bleeding Jenkins applies a 21/2 per cent solution of iodine into the meatus and cleans up the pinna. When the bleeding is profuse he merely cleans the pinna When there is no bleeding or when the harmorrhage

has ceased he attempts to clean the meatus. Syring ing of the ear in these cases is not advisable. When there is a chronic suppurative middle ear disease, the risk is greater especially if there has been escape of cerebrospinal fluid. In such cases Jenkins establishes free drainage in the region and sometimes goes through some of the stages of the radical masto d operation and exposes the dura along the line of fracture

In cases in which there is no evidence of damage to the dura operative procedures on the bone are contra indicated as an operation may produce in tury to the dura by causing movement of the frag

ments

BALLANCE states that harmorrhage from the ear comes from the tympanum or from the veins, sinuses or surrounding arteries. He has never observed hamovrhage from the internal carotid coming out of the external auditory meatus except in a case of tuberculous disease of the petrous bone Hamorrhage from the lateral sinus is rare and likely to be rapidly fatal Hæmorrhage from the middle meningeal arters may be very profuse and demand immediate surgical intervention. In cases of hæmorrhage with concussion and loss of consciousness the best procedure is immediate decompression. In cases of hamo thage from both ears operation should be performed on both sides

The treatment of masal injuries should be based upon the same principles as those observed in the treatment of the ear Ballance believes it is impossi ble to render the no-e aseptic

For cases with a history of sep-is Ballance advises surgery as indicated

In Ballance's cases of fracture through the middle for a there was total deafness with total facial Some of the patients recovered from the total deafness, but few recovered from the total facial pals

When these fractures are seen early, the main object of the surgeon should be to prevent the occurrence of sepsis by doing a decompression and to convert a compound fracture into a simple fracture so far as the brain and membranes are concerned SHIPLEY C. LYONS M.D.

Gruea A and Meisels E Asymmetry of the Mandible Irom Unilateral Hypertrophy Ann Surg 1926 lxxxiii 755

The authors report in detail a case of asymmetry of the mandable and review briefy fifteen animal reases reported in the hierature. In their own case the asymmetry was due to hypertrophy of the bead and neck of the right mandable. The typical unlateral prognathism and the malposition of the teeth develop very slowly. The operative treatment employed most frequently as unlateral resceition of the head of the condyloid process. This usually gives a good cosmetric and functional result.

J FRANK DOUGHTY M D

Magaton O A Case of Total Necrosis of the Mandible Due to Acute Infectious Osteomye litts (Un case di necrosi totale della mandibola da osteomielite acuta infettuva) Ann ital di chir 1262 V 158

Almost all of the cases of total necrosis of the mandfule that have been reported to date have been due to phosphorus poisoning. Yery few were caused by acute infectious osteomyelitis. A case of the latter type is reported in this article. The patient was a pair to years old who bad a negative persons and family not been considered to the control of the control of

On October at the patient was admitted to the hospital with a temperature of 388 degrees C and suffering with headache and intense pain. The pain was felt throughout the mandhile but was particularly intense at the angle and along the ascending ramus on the left side. The patient is face and neck were enormously swollen and there was marked fluctuation in the suprahyoid region.

An incision was made at the point of greatest fluctuation and the pus drained. The diagnosis based on exploration was acute suppurative osteo periositis and probably also osteomyelitis of the entire mandble.

Soon all of the teeth hecame hrown lost their lustre and fell out A noentgenogram showed many zones of rarefaction of the mandible and at the periphery a zone of increased density due to the normation of hone. Another roentgenogram made after forty days showed diffuse necrosis of the man dible and the formation by the periosterum of the shell having the shape of the necrosed mandible While the fistula from the incission had decreased there were ulcers of the gums through which pus and fragments of bone were discharged.

On March 21 1922, a large movable sequestrum constituting the entire body of the mandialle was removed On April 24, two other sequestra which represented the two ascending rami of the jaw were removed The suppuration then immediately stooped and the fistula closed

The patient left the bospital with her checks and suprahyod region still swollen and with himitation of the inovement of the temporomandibular joint. The neely formed mandhid was alnormally large, the body was well defined but the ascending ram were still a little bazy. The hone was less opaque than the other bones but was uniform in density On May 71, 1024 the newly formed bone was greatly reduced in size and normal in outline both the body and the ascending rami were completely developed. All movements of the joint were normal and the patient bad no difficulty in eating. She was then sent to a dentist for a set of teeth. The cosmetic and functional results were excellent.

AUDREY G MORGAN MD

Pulford D S and Adson A W Surgical Removal and Pathological Study of a Massive Squamous Cell Epithelioma Associated with an Angloma of the Scalp Surg Gynec & Obst 1926 Xln 846

In cases of extensive superical vascular lesions surgical shock can be decreased by the use of local anasthetics. In the removal of superfical angiom ata bleeding can be prevented by the use of the Heidenhain suture

The cautery knife may he of some aid in con trolling capillary oozing and in causing lymphatic block during the removal of the tumor

Epithelization can be obtained over denuded bone by removing the outer table and subsequently treating the granulating area with paraffin

Angiomatous tumors may be associated with squamous-cell epithehomata as the result of progressive changes in the overlying hyperplastic epithehum. In such cases the angioma may be considered the indirect cause of the epithehoma.

Doubtful tumors should be sectioned for hopsy If malignant they should be graded hefore operative procedures are completed or the prognosis is stated The authors report a case of malignant squamous cell epithelioma ansing from the epithelium overlying

a beingn angioma. Although approximately one half of the tumor was angiomatous the malignant growth was not an angio endothelioma as might he supposed but an epithelioma arising from the epidermal elements overlying the vascular growth

Tavares A A Cavernous Hæmangioma of the Upper Lip (Hémangiome caverneux de la lèvre supéneure) Ann d'anat path 1926 m 147

The case of cavernous hæmangoma reported in this article was that of a woman 40 years of age. The tumor was attached to the upper lip hy a short pedicle which occupied a large part of the free horder of the lip. It was 8 cm long 7 cm broad at its broadest point, and 21 cm in diameter. It hung



Figs 1 and 2 Pedicled implantation of the humangioms Fig 3 Result after removal of tumor

45 cm below the lower level of the jaw From in front it was approximately heart shaped, but when it was lifted up so that its posterior surface was brought to view it somewhat resembled a lidney, the line of its implantation on the lip corresponding to the hilus. The skin over it was smooth and violet colored. The tumor was painless and soft. At its base and periphery it felt pasty and lobulated. In the center it was harder. On pressure it became paler but could not be reduced.

No other abnormalities were found The patient was slightly emacated but had a good appetite. She was in the fifth month of pregnancy She reported that about twenty two years ago, when she was splitting wood, a chip struck her upper lip Two weeks later the lip began to swell and a tumor developed. This was extirpated but re appeared after two years. It bad always increased during pregnancy and had decreased again after delivery During the last few months it had grown rapidly. The patient's health had always been good.

A clamp was applied on each side of the pedicle and the tumor extirpated under novocain adrenalm anaesthesia. After suturing of the skin and mucous membrane a collodion dressing was applied. Un eventful recovery resulted

On histological examination the neoplasm was found to be a cavernous hæmangioma with foci of purulent inflammation and advanced endarteritis and mesarteritis. The fibers of the orbicularis muscle showed marked deteneration.

Angiomata are regarded as congenital abnor malities due to a disturbance of the embryological development of the branchial arches. They are found chiefly at the points where the fetal clefts close. At these points there may be defects such as hare lip, or hyperplassas such as angiomata, or both Angiomata may remain latent for years and then develop without any apparent cause or after trauma.

Audrence of Morean MD.

## CYE

key B W The Influence of Protein Therapy on the Experimental Staphylococcal Infection of the Rabbit's Cornen Am J Ophth, 1926, 3 s 18, 351

Ley states that the best form of foreia, protein available for administration to man is antidipithern serum. The dosage of other prepartitions such as milk, normal horse serum, noina, etc., and the reaction produced by them are uncertain. The dosage of the serum is more definite and its ana phylactic effects are better understoned.

A concentrated serum is less likely to cause serum six ness than whole serum because a smaller quantity of the former is injected. The history of previous anaphylactic conditions such as diphtheria, status lymphaticus, asthma, or has lever like attacks in persons proved susceptible in a stable and horse environment are well established as probably contra indications to serum injections.

key has not observed serious anaphylactic effects in any of the 170 cases treated to date. The doses have varied from 1,000 to 5,000 units

In the first six experiments performed by the author with regard to the Influence of protein therapy on staphylococcal Infection of the rubbit's comea an unmeasured dose of staphylococcl was used for the inoculation, but because of the very violent corneal reaction produced by the too concentrated emulsion of the micro organism, nothing as to desage or differences in effect could be determined.

In the next threteen experiments it was recognized that if the minimal dilution of staphylococci producing active ulceration of the corner could be determined, more accurate observations would be determined, more accurate observations would be possible. The determination of the virulence of the staphylococci for the corneal substance was at tempted by first growing the micro organism in the eve of an animal. However, this calculation was

upset by the varying virulence of the different strains of staphylococci isolated from different parts of the body

In the last seven experiments a more accurate method of determining the virulence of the bacteria was devised the strains used being passed through the eye of three successive animals

From his experiments Ley draw the following

conclusions

I Such in investigation as this is dependent for its accuracy primarily upon the method of inoculation the determination of a fixed virus through passage and the suitable dilution of this yerus

2 The method of injection the size of the dose and the relative value of different forms of protein should be worked out with some degree of certainty from the outline of procedure finally demonstrated

in these experiments

3 These experiments demon trate that very interesting and important question of virulence of different strains of staphylococci for corneal substance as evidenced h), the unmistakably greater virulence of the staphylococci cultivated from the eye as compared with those cultivated from the throat. Whether this is entirely a specific effect or a mere variation in ordinary virulence remains to he proved.

A In almost every experiment in which any difference could be noted the arimal which received the protein impection showed the least corneal reaction to the infecting micro organism. However none of the experiments showed any important difference between the effect upon the infection of antidiphthems are une concentrated horse serium and typhoid vaccine. Sterile milk, which was tried in twielver rabbits showed on effect whatever the corneal lesson being similar in every way to the corneal lessons in the control animals.

L L McCov M D

## EAR

Milligan Sir W Hæmorrhagic Types of Ear Disease Occurring During Epidemics of Influ enra Proc Roy Soc Vied Lond 1926 xiv Sect Otol 2

The toxemia produced by the influenza bacillas in the blood induces a marked vasomotor paresisupsets the balance of the heat center and as a rule produces intense congestion and a bigb temperature

The author believes that the very severe headache is the result of an acute and rapid congestion of the pia arachnoid membranes with a concomitant increase in the crethrospinal fluid and a consequent rise in the intracanial pressure. Lumbar puncture gives prompt relief from the headache and relieves the varying degrees of serous meningitis. If also materially checks the abertations of the heat center such that the predisposers more to high predisposers more to high the product of t

In the external auditory meatus the occurrence of an ottus hæmorrhagica is pathognomonic. In no other condition do we find the peculiar blood charged bullar present in influenza. These bullar are usually situated on the postero inferior meatal wall close to the annulus lympanicus or on the surface of the membrana tympani itself.

In true outsis media hemorrhagica the drum head is ordematious and fiery red occasionally shows bulke of a dark blush rolor on its posterior segment and at times pulsates as a whole. The condition is invariably associated with intense suffering The congestion is much more acute and painful than that present in the usual types of middle car catarrh and its destructive effects so fair as the contents of the middle car are concerned, are much more serious.

Extension to the mastoid antrum is quite common With the exception of diabetic mastoidits there is no inflammatory affection which produces such rapid destruction of home as influenzal mastoidits

The author is convinced that in many of these cases with objective signs of severe congestion there is at the same time an evanescent pis arachetist. He urges removal of the focus of infection and lumbar puncture. The operation of choice is the Schwartze operation.

Nerve deafness may often he attributed definitely and specifically to an attack of influenza. The pathology present is undoubtedly a harmorrhagic effusion into the cochlea with resulting destruction of certain portions of the end-organ and toxic infection

of the auditory nerve itself

It is of the utmost importance to recognize the symptoms of an early serosanguinous influenzal lahyrinthius and to treat it vigorously by local deplition lumbar paneture and the repeated sub-cutaneous injection of pilocarpine in order to promote absorption and thus relieve the increased intitalsby intimite tension so conducts to the passage of towns through the point of least resistance of the auditory tract. A R Hostitimes MD

M Nally W J Experiments on the Saccus Endo lymphaticus in the Rabbit J Laryagol & Otol 1926 th 349

In three series of experiments on rabbits the author studed the effect of incasion of the median wall of the saccus endoly mphaticus the application of pressure over it and cauternation. None of these procedures caused much disturbance of the vestib walk mechanism. The most constant result was a diminution of tonus of the homolateral limbs: This spin appeared after several hours, whereas rupture comes immediately. It was most constant following measured the saccus. In the other experiments with a diminution of tonus it wis impossible to say that the saccus had not been opened.

The only other sign suggesting laby rinthine disturbance was a horizontal deviation of the eyes to the side of the saccus operated upon. The author concludes that the saccus is probably not directly concerned with the diminution of tonus which appears immediately after rupture of the round window

Manford R Waltz M D

Hempstead B E Six Cases of Definite Mastolditis in Which the Middle Ear Was Definitely Not Affected Ann Otol, Rhinol & Laryngol, 1926, xxv 517

Cases of mastoiditis without apparent involve ment of the middle ear are rare as compared with cases in which the middle ear is obviously affected

Infection in cases of mastoiditis usually comes from the nasophary ax by way of the eustachian tube. If the additis ad antrum is small, infected material will soon be sealed off no means of drain age being left for the infected cells whereas the infected material in the middle ear may drain through the eustachian tube. Mastoiditis without apparent involvement of the middle ear should not be confused with latent otitis media in the latter there is deafness and sometimes pain but no spontaneous discharge of pus. However, particules is always followed by a discharge of pus.

Apparently fifty tight cases of mastoditus with out evident involvement of the middle ear have been reported in the literature, but the descriptions are brief and the data therefore uncertain and in conclusive. The author reports six cases from the Mayo Clinic. While the study of these cases does not permit definite conclusions it indicates the existence of an antecedent otitis media without symptoms. The roentigen ray examination is important. Paracentesis is always negative. Predominance of the streptococcus mucosus is a danger sign in this type of infection, and when this organism is found in cases of acute otitis media with the drainage of pus, the otologist should be on quard

## Smyth D C A Skin Periosteal Flap for the Radical Mastoid Ann Otol Rhinol & Larringol, 1926 XXXV 442

The object of plastic operations on the external auditory canal after complete exenteration of the mastoid is to prevent a stricture of the external meature and to utilize the posterior wall of the meature for partial covering of the surface of the wound in the bone thereby adding another starting point for the epidermization of the uncovered granulating bony surface. As the posterior canal skin is usually so traumatized after a radical mastoid operation that the Koerner flap is practically useless, the author endeavors to improve the skin flap by implanting deep in the cavity a flap of live epithelium with a blood supply through its attached persosteum

The canal having been cleaned with nodine and alcohol an incision is made in the external auditory canal down through the periosteum along the superior canal wall to the promotiory and along the inferior canal wall. The canal is then temporarily packed with gauze, the regular mastoid incision is made down to the periosteum but not through it,

and the subcutaneous tissues are dissected forward so that the posterior cartilaginous canal is brought into view. At the juncture of the cartilaginous and bony canal an incision is carried through to meet the original incisions. From these intersections incisions are carried backward through the perios incisions are carried backward through the perios terum over the mastoid to the edge of the posterior regular mastoid incision. With a submucous eleva tor, the periosteum of the mastoid over the mastoid sundermined a small buttonhole opening is made in the periosteum, and the periosteum is lifted off. The whole flag is then retracted backward.

When this fechinque is used, the slap is posterior to the field and is therefore not subject to trauma On completion of the operation the cartilagnous wall is split through the concha and catgut stitches run from its subcutaneous tissue to the posterior lip of the mastoid wound. These sutures hold the canal widely open. A skin graft is placed in the middle ear and the cavity filled with sterile vaseline Excessive granulations are removed by a Greenwald punch.

The author has never observed any sloughing of the periosteal flap. The advantages of the technique described are that the flap is prepared at the begin ming of the operation and placed out of the way, there is a dry unobstructed operative field, the flap is formed of absolutely untraumatized tissues the periosteum helps to diminish the size of the bowl, a skin graft is easily placed with accuracy in the middle ear and the time of operation is shortened

The article contains case reports and illustrations
GEORGE R MCAULIFF, M D.

## NOSE AND SINUSES

Mangabeira Albernaz P
Polyps of the Septum The Polyp of Leish
manlasis (Contribution à la pathogéme des polypes
du septum le polype de la leishmaniose)
\*\*Arch
internal de larying0 1926 7xxii 139

This article does not deal with mucous polyps, the existence of which on the septum has been denied by some rhinologists, but discusses the hard, almost sessile, fibrous polyps which may be found implanted on the vascular area of the septum in almost all granulomatous infections, tuber culosis, syphilis, rhinoscleroma, leprosy, and some times in chronic glanders

The author reports three cases in which they were associated with leishmaniass. One patient was a 12 year old boy, another a man of 31 years, and another a woman of 34 years. The tumors were smooth and irregularly round and located on the septum between the tubercle and the inner border of the nostril. They were hard and fibrous pale rose in color, paniless, and sessile. They did not bleed but epistaxis sometimes occurred when the base was explored. They did not cause prunts or sensations of heat or cold. The author attributes them to an energetic local defense reaction and attenuation of the yrus.

Tartar emetic is as specific for leishmannass as a novarsenobergol is for syphilis. Often the ulcers heal after from four to eight intravenous inject tions. This does not mean that the disease is cured but the patients often stop the treatment if they are not under control. Sometimes a large number of injections is necessary to effect a cure. In very severe cases as many as 150 have been given.

When the treatment is insufficient taxtar resistance develops and it is n such cases that the polyps are formed. The author never saw any cases of polyp while he was on the staff of the Ocommolaryngological Chinic at Bahai in which the treatments are followed up energetically. There cases he reports he observed in a country practice and were cases in which the treatment had not heen thorough. \*\*ADERF G Moreavi M.D.\*\*

Sargnon Radium in the Treatment of Tumors of the Nasopharynx (La radium thérapie dans le traitement des tumeurs du naso pharynx) Arch internat de laryngol 1926 xxxn 38

The author classifies tumors of the nasopharynx into two groups the diffuse and the fibromatous Radium irradiation has not proved successful in the treatment of diffuse malignant tumors but in cases of true fibroms and malignant tumors with a fibrous appearance it has given very good results. In the latter the author bas ahandoned surgical treatment entirely in favor of radium irradiation because at operation there is ant to be very severe hamorrhage which sometimes necessitates ligation of the external carotid total removal of the tumor is often extremely difficult the tampon which is necessary often causes ear disturbances and some times mastoiditis and there is danger of secondary hemorrhage and recurrence. He uses radium with out any preliminary operation. As he has had only tubes and needles available he has been unable to employ emanations. At first he introduced needles by either the nasal or the huccal route but he found that those placed by the buccal route easily became displaced a that they burned the surrounding to sues and unless they were not very firmly fastened there was danger that they might he swallowed. He therefore now uses tubes entirely

After cocaming and advenshing the region he passes a fine sound through the nose and mouth and attaches a thread to the mouth end of it to serve as a conducting thread in each postril He then puts two tubes in tandem in a rubber sheath (preferably black) to exclude secon lary traduction and sheaths them with gold if possible for better filtration He then pulls them up to the region of the tumor so that one lies in the nasopharynx and the other in the posterior part of the nose. This generally causes some hamorrhage but the bleeding can be stopped by an anterior tampon. The tampon may be removed the next day. The tubes are generally left in for forty-eight hours. One application is enough He generally uses tubes of roo or 50 microcuries. As a rule no hæmorrhage occurs when

the tubes are extracted as the radium has a hæmo static action

In one case of epithelioma of the fibromatous type he applied a collar of twenty tubes around the lower part of the face, but its action was too intense, causing a double perforation of the vault of the palate. An external collar is not necessary in such cases. When there is enlargement of the glands which is rare in timors of the fibromatous type the glands should be removed surgically as the radium will have bittle effect upon them. In one case the term of the collar of the collar of the case of the collar of the case of the c

The treatment described causes cessation of the hemorrhage and slow but progressive retrogression of the tumor Generally several months are required for the complete disappearance of the neoplasm. The action of radium may continue for three months its unfavorable effects if any appear late. A possible unfavorable sequela is necrosis of the vault of the palate. In some cases the posterior part of the the palate in some cases the posterior part of the feet of the palate. The other posterior for the palate in some cases the posterior part of the feet of the palate in the posterior part of the palate in the palate in the posterior part of the palate in the

The author has previously reported twelve cases One of them was a case of fibroid tumor in a young girl This tumor disappeared and at the end of four years had not recurred Three were cases of hamorrhame fibroma in boys at puberty these boys has been cured for two years but has a large perforation of the vault of the palate Another who was treated during the war was benefited but has not been seen since Of five patients treated for sarcoma of the fibromatous type, one who was apparently cured has not been seen since another was benefited, two others were apparently cured and one has remained cured since 1013 Of three cases of atypical epithelial tumor with a fibrous appearance all nere cured and one has remained cured for two years The details of five recent unreported cases are given. All were cured

but the late results are not jet known Audrey G Morgan M D

Chatetlier II P and Darlaux A Stereoroent genography as a Method of Exploring the Carniat Simuses (La stéréo radio<sub>o</sub>taphie moyen dexploration des sinus du crane) Arch internat de laryngiot 1256 xxxxx 9

The bead is the most difficult part of the skeleton to examine roentgenologically because of its thick ness and complexity. The multitude of planes of different depths superimposed on the single plane of the film produce a confusing picture in which nothing can be distinguished clearly. The stereorentgenogram detaches these planes from each other and hangs them out with a rehel which gives the observer the impression that he is looking through a cranium of glass. The different planes are shown in their proper relation to each other.

It is very easy to take the pictures. The head is firmly fixed in position and the normal ray directed on the center of the region to be photographed, for the postero antero incidence, for example, it is directed on the midline 2 cm below the external occipital protuberance. The tube is fixed at the desired height, from 7,5 to 80 cm above the film case. For the first photograph it is moved from 3½ to 4 cm to the right and then back to the center For the second it is moved the same distance to the left. The two films are superimposed by means of a stereoscope.

Any operation on the posterior sinuses should be preceded by a roentgen examination in order that the operator may have an exact knowledge of the anatomy of the region. As an examination by ordinary roentgenography requires at least four plates—one from the base, one in profile an intrabuccal plate, and an oblique plate—the necessity of taking two films for the stereoscopic picture is not a serious

disadvantage

Ordinarily the maxillary sinuses can be examined quite well by the usual methods but the authors have found on stereoscopic roentgenograms taken from in front that an opacity which appeared in an ordinary roentgenogram to be in the sinus was in reality much further back on the lateral mass of the tallas. In another case an apparent sinus shadow was found to be caused by a large dental cyst the conventy of which projected far into the sinus.

The stereoroentgenogram has decided advantages in the examination of the frontal sinuses. In an ordinary roentgenogram it is difficult if not im possible, to see the interorbital part of the sinus As the frontal sinuses the ethmoid cells and the sphenoid sinuses are on almost the same horizontal plane, their shadows are superimposed Sometimes the chnoid processes and the tip of the petrous pyramid may confuse the shadow if the head is not held absolutely straight, and the shadow of the interfrontal septum is easily confused with the shadows of other vertical lines of bone. It is occa. sionally impossible to distinguish the upper part of it from the frontal crest and the lower part of it from the top of the nasal septum, the crista galli, and the intersphenoid septum. A vertex chin incidence is better even in ordinary roent enography than an anteroposterior incidence but even in the former the floor of the sinus is presented obliquely to the rays, this resulting in distortion and lack of precision The only method of examination that over comes these difficulties consists in taking two stereoroentgenograms, one anteroposterior and one vertex chin

Stereoroentgenography is of great value also in the study of the ethmoid and sphenoid sinuses. It is the only method which brings them out from each other and shows the succeeding planes in their proper perspective. While the stereoroent genogram will not reveal the individual ethmoid cells, one behind the other, it will clearly demon strate lesions of the ethmoid cells a distinct from lesions of the frontal or sphenoid sinuses. In the examination of the sphenoid sinuses the films may be reversed and looked at from behind. There will then be nothing in front of the sinus but the plate of the occipital bone and the basilar process, the pictures of which are very simple and not at all confusing. The streeroentigenographic method is to be recommended particularly for the examination of the sinuses. Audreace of Moscan M. D.

Reverchon and Tsiros An Ethimofrontal Mucocele with Extensive Invasion of the Orbit (Mucocele Ironto ethimoidale avec large envalusement de lorbite) Arch internat de laryngol 19 6 xxu 165

Ethmofrontal mucocele develops slowly and generally pushes the contents of the orbit outward without injuring them. It is unusual for it to reach such a size that the eyeball is injured and vision is impaired.

The case reported in this article was that of a man z1 years old. Two years before the patient consulted the authors he felt a small tumor at the upper inner angle of the left orbit. This given slowly for a while, but for about eight months it had caused pro gressive impairment of vision. Examination revealed lines and dots of objective in the crystalline lens. There

was no pain

The lachrymal bone was pushed forward by a soft tumor which seemed to originate in the floor of the orbit, descend into the frontonasal canal, and extend backward and involve the lateral wall of the orbit. The tumor projecting into the orbit from the fronto-orbital angle was the size of a large nut. A ray examination showed opacity of all of the left fronto-orbital region which partially masked the details of its structure, but the left frontainus could be seen. The latter appeared distended It was impossible to say whether the condition was an ethmofrontal mucocele or a malignant tumor of the ethmoft.

At operation an incision was made over the frontal sinus and around the upper and inner border of the orbit. In the floor of the frontal sinus there was a large breach from which flowed a mucopurulent fluid. The fluid was aspirated with a pipette to prevent soiling of the field of operation. No bacteria could be found in it. The walls of the sinus showed no trace of ostetits but were covered with a mucous membrane thicker than that of a normal sinus. The whole sac hing the sinus was shelled out like a paradental cyst of the upper maxillary. There were quite firm adhesions along the floor and around the hreach in the bone. The eyeball was restored to its normal position and the wound sutured in two layers.

The eye regained its normal movements very quickly A month after the operation the signs of congestion had disappeared but the opacities of the lens remained Vision improved but remained less than afto. Histological examination of the membrane showed a connective tissue layer lined with clusted epithelium. In this case there wa a slow period of growth of the cyst followed by rapid growth. It seems that the infection caused the latent cystic tumor to enlarge rupture the bone and invade the other. Trophic disturbances of the antenor segment of the eye primarily anexthesia of the cornea are common in phigemons of the eyeball but the authors believe they are unusual in cases hie such as this in which the cyball is only compressed and not diseased. Total removal of the membrane is the well as of paradental cysts. In the case reported it will not seem necessary to establish nasal dramage Infected mucocle is to be considered a cyst analogous to a paradental cyst rather than a sinustic or a paradental cyst rather than a sinustic.

Aimpey C Mangan M D

#### MOUTH

Campbell A The Closure of Congenital Clefts of the Hard Palate Brit J Surg 1926 til 715

Campbell has devised a method of closing defects of the hard palate by using the nasal septum. The tissue of the nasal septum is very vascular and heals

well under adverse conditions

The first step in the operation which consists in the formation of the palatal flap involves the reflection of a flap from the buccal surface of the palate on the same side as the cleft with its base on the lateral margin of the cleft. The width of this flap is approximately a little greater than that of the aleft!

The incision is made parallel with the cleft mar gin and goes down to the bone. It extends as far as the posterior border of the hard palate and the ends of the incision are then toined to the margin of the cleft. The mucoperiosteum is reflected medally as far as the margin of the gap in the bone and the linged flap thus formed is turned upward so that it comes to be with its medial-edge in apposition,

with the lower edge of the septum and its raw surface toward the mouth

The second step consists in the formation of the nasal flap. This is done by measuring the distance between the lower border of the septum and the unreflected or lateral edge of the palatal incision If for example thi is r cm posteriorly at the juncture of the soft and hard palates a mark is placed on the nasal septum about 2 cm vertically above its lower border If the gap narrows anteriorly to o 5 cm a mark is made above on the septum 1 2 cm from the lower border A line of incision is thus outlined Then with a rectangular knife a horizon tal incision is made from behind forward along the line cutting through the mucoperichondrum as far as but not into the cartilage of the septum The anterior and posterior ends of this meisson are then joined to the lower border of the septum With an elevator the mucoperichondrium is turned down so that it hangs like a curtain in the mouth. This nasal flap has its base at the medial margin of the cleft its raw surface toward the nose and its lateral

edge in approximation with the lateral edge of the

In the third step one or two sutures are introduced to unite the upper and lover flaps at the base of the septal flap it necessary and the lateral edge of the nasal flap is sutured to the line of the palatal incision with three or four sutures. This completes the operation.

[AMES C BASANELL M D

#### PHARYNX

Baum H L The Radical Cure of Peritonsillar
Abscess Ann Olol Rhinol & Laryngol 1926

The treatment of peritonsillar abscess is disappointing especially in the early stage. Because of the intense suffering and the danger of serious and often fatal complications it is exceedingly desir able to give rehef as early as possible rather than to wait until incision and evacuation are considered feasible.

The author has obtained most satisfactory results from tonsillectomy. In what he sails the second stage of the condition the gland is pushed toward the middine but as yet there is no suprationalization halping. As the ordinary methods of approach wall not evacuate the pus at this time tonsillectomy is most appheable. Baum performs it under ether anzithetia and removes the normal tonsil at the same time.

This method evacuates the pus and provides massive drainage of the infected area with immediate relief George R McAulier M D

#### NECK

Graham A The Thyroid Gland in Relation to

Graham discusses the effect upon the thyroid of surgical removal \ ray and radium irradiation

and jodine treatment

Surgeons are confronted with the question of how much gland to remove. If too little is removed the chancial results are not satisfactory whereas if too much is removed myscodema may develop Prior to the administration of iodine as a preliminary to operation it was the rule to remove from three fourths to seven eighths of the gland. The removal of so much tissue from patients treated with iodine may merease the postoperative incidence of abnormally low basis inetabolic rates with or without tableties there are definite use for iodine after the postoperation of the present regeneration by perplasa in glands that had not undergone complete involution before operation.

With regard to the effect upon the thyroid of reengten ray and radium irradiation the author states that our knowledge is still to uncomplete to warrant definite conclusions. Clinical and experimental evidence indicates that irradiation produces adhesions hetween the thyroid and the surrounding

structures, fibross of varying degree, and a decrease in the vascularity and volume of the thyroid. It is doubtful, however, whether on an anatomical basis, these changes can be distinguished from changes of a similar nature and equal degree in thyroids that have not been irradiated. With regard to the effects of irradiation upon the function of the thyroid very little is known.

The implantation of radium produces localized necrosis followed by fibrosis, changes quite similar to those produced by the injection of boiling water, alcohol, quinine and urea iodine, carbolic acid, etc.

Iodine is being extensively used as a therapeutic agent without proper appreciation of its indications and contra indications. The indications and contra indications are derived from the state of the thyroid itself.

The clinical response of patients with typical exophthalmic goiter and typical toxic adenoma to the
administration of iodine is identical varying only
in degree, and depends upon the patient's age and
condition, the duration and intensity of the disease
the state of the thyroid at the time, the quantity of
iodine given, and whether or not the patient took
iodine previously

STANKEY J SELGER M D

## Crile G W The Surgical Treatment of Golter Radiology 1926 vi 365

Crile says that as there has been so much uncer tainty regarding the cause and specific nature of the syndrome designated as "hyperthyroidism" it is not surprising that various methods of treatment have been suggested for it. However, of the definite methods which have been proposed, the only ones which ment serious consideration are the rest cure, radiation and surgery.

Ever since the discovery of the therapeutic value of the \ ray the possibility of applying the ray to the treatment of hyperthyroidism has been under discussion

Means and Aub claim that in cases of equal touc ity the chance for the cure of evophthalmic goiter is as good in roentgen ray treatment as in surgery, and that, this being true, the former method is preferable to the latter as it is associated with less danger of a fatal outcome, it produces no scar, it does not interfere with the patient so occupation, it is paniless, and it causes the patient very little inconvenience

Against these claims, Crile states that under the plan of management employed by him almost no case of hyperthyroidism is too severe for surgical treatment

In a series of 748 thy sodectomies for by per thyroidism performed during a period of six months beginning June 1 1925, the mortality was only o 82 per cent and among 398 ligations it was only o 76 per cent. When the site of the incision is care fully chosen, the resultant scar is so slight that within a few weeks it is practically invisible. The one of two brief stays in the hospital necessitated by surgical treatment do not inconvenience the patient more than the repeated visits to the hospital necessary for

treatment with the N ray. In reply to the argument that X ray treatment does not interfere with the patient's occupation, Crile says that in acute hyper thyroidism it should be interfered with, whatever treatment is used. He calls attention also to the fact that operation is the only procedure by which the amount of diminution of the bland can be accurately controlled. The argument of the radiologist that surgery can be employed later if the N ray does not effect a cure is not a good one because radiation increases the difficulties of operation and during the period that the X ray is being tried the disease causes additional damage

In conclusion Crile states that the success of radiation as well as of surgery depends not only upon the method employed but also upon the management of the patient over a period of time the length of which depends upon the type of the disease. In hyperthyroidism the management of the patient over a prolonged period is of particular importance the operation constitutes only one stage in the treatment.

Ladwig, A Follow Up of Patients Operated upon for Basedow s Disease (Nachuntersuchungen an Basedow-openerten) Arch f klin Chir 1925 cxxxvii 367

This article is a report on 150 of 150 cases of Basedow's disease which were operated upon in the period from 1512 to 1524. The author differentiates between the classical Basedow's disease (with the Merseburg triad, tachy cardia, goiter and evophthalmos) and thyrotoricosis. The latter condition resembles the classical Basedow's disease clinically, but lacks the most pathognomonic sign of the latter, namely exophthalmos.

The treatment of choice is bilateral wedge resection preceded by ligation of all four large arteries or if the remaining portion of the gland will not be functionally sufficient, of only three. In especially severe cases with marked involvement of the heart, the operation should be performed in two stages first ligation of both superior thyroid arteries or of only one, and then after improvement of the general condition—usually one or two months later—bilateral resection.

In the ward cases of Basedow's disease which are reviewed the postoperative mortality was 65 per cent while in the ward cases of thyrotoxicosis it was it i per cent. In cases seen by the author in private practice, the corresponding percentages were 2 and 6 6

A satisfactory explanation for the true Basedow death has not yet been found. The typical picture is that of an increased pulse rate increased anuety, and frequently a considerable rise in the temperature. This was sometimes observed even after ligation operations.

The pre operative care is of the greatest importance for a favorable result. In the author's cases the patient is given bed rest for eight days. The operation is performed under scopolamine morphine

anasthesia supplemented with local novocain or

Good results, by which is meant freedom from severe nersons disturbance and the return of the ability to work (complete disappearance of all symptoms was rarely observed, were obtained in sevent), two (69 2 per cent) of req cases of the classical Basedow's disease and in twenty four (68 5 per cent) of thirty five cases of thy roboticous Half of these were permanent results. Cases in which the neuropathic element is particularly dominant are more difficult to influence than the others even by operation

The author attaches great value to postoperative treatment by physical and mental rest hydro therapy climatic influences and psychotherapy

Psychotherapy is particularly important

The blood picture is not influenced by the operation In the majority of cases, lymphocytosis cosnophila etc. were found after operation aswell as hefore it and were as common in the cases in which good results were obtained as in those with poor results. The blood picture in Basedow's disease is a sign of constitutional degen eration which is not affected by the operation

SIMON (Z)

Boattini G Thyrold Grafts (Lanesto taroideo)

Arch stal & Chr. 1936 Xr 1.

The author performed several series of experiments in grafting thyroid itssue. He grafted homo plastic and autoplastic thyroid into rabbits which had been partially thyroidectomized and also into those which had been subjected to complete thy roidections. He found that the grafts did not take in the animals that had hen partially thyroidec tomized but did take in those in which the whole

thyroid had been removed. It seems that the graft requires a functional stimulus in order to survive and if the body is all ready sufficiently supplied with thyroid hormone and no functional demand is made on the graft it is absorbed. Ho ever in tological examination of the grafts in the cases of total thyroidectomy after periods of a slong as one hundred twenth vive days showed the persistence of normal thyroid tissue with signs of hyperfunction which is indicated not so much by a large amount of colloid as by its find character. The colloid is less visced and does not strain so intensely as colloid in a gland that is not functioning excessively and the cells are higher

The thyroid tissue to be grafted should be fresh and will take better it it is divided into small pieces. The best bed for it is the subcutaneous tissue of the abdominal wall as this has a copious blood supply and exerts no tove action on the graft. The author believes that homoplastic thyroid grafts are capable of taking and functioning for an indefaultime, and that further experimentation along this line will be of great value in treatment.

and often cylindrical

AUDREY G MORGAN M D

Thomson Sir St C Tuberculosis of the Latynx Treatment with the Galvanocautery Indica tions Results Technique Lancei 1926 ccx, 1084

The author never gives galvanocautery treat ment in a case of laryngeal tuberculosis until sufficient time has elapsed to show the progress that will be made under sanatorium care and voice rest

The results of galvanocautery treatment are most favorable when the disease is situated on the vocal acods the vocal processes, and the interarytened region and is in a quiescent state. This treatment is sindicated also when the tuberculous deposit is limited to a ventricular band or arvepiglottic fold and is of an indicent type. When the epiglottis is invaded it may be employed only when the condition is chronic or of the lumon form

It is contra indicated in acute cases with a turbin shaped epiglottis, and particularly during the evolutionary period. It is dangerous if the arytenoids are acutely insaded with a massive deposit or show a pseudo ordende and when the mobility of the cord

is impaired and there is pain.

The patient's general condition must always be taken into consideration. The operation should not be undertaken in the case of a natient whose general.

condition is rapidly deteriorating

Ol 3 ste lary ngeal cases seen in a sanatorum during the last fourteen years 17 50 per cent were cases ol laryageal tuberculosis, and of the latter only 166 per cent were regarded as suitable for galvanocautery treatment. In the first ten years a cure was obtained in 65 per cent of the cases but in the la t four years it has resulted in nearly 69 per cent.

The author describes the indirect method of laryngostomy and the technique of the use of the galvanocautery under local enesthesis. Redundant granulations are an occasional sequela. In two cases a troublesome stenoals developed but tracheotomy was done with a favorable result.

J FRANK DOUGHTY M D

Woodburn J J Enchondromata of the Larynx Med J Australia 1926 1 645

Enchondromata of the larynx are rare. A search
of the literature revealed only surfy two such cases
and in some of them the diagnosis was doubtful
because a microscopic examination was not made.

The author reports the case of a patient 66 years of age who had had hoarness for five years and dysphaga for a year and recently dysphora and a loss of weight. External examination showed a hard swelling on the right side of the neck, extending down to the clavite. The lavragescope revealed a large round swelling which filled more than half of the hypophary no in the right side and hid the right cord. The right cord was fixed. The growth throwed the right arytenoid cartilage.

At operation a deep dissection was done on the right side of the neck and an opening made into the lower portion of the pharynx. The cricod cartilage the right wing and the lower third of the left wing of the thyroid cartilage were removed Death occurred five days later from bronchial pneumonia The diagnosis of enchondroma was based on the findings of microscopic examination Geoger R. McAULIER, M D

New, G B Surgical Diathermy in Laryngology Arch Ololaryngol , 1926, 111, 301

In the treatment of new growths or beinga lesions in the nose and throat, surgical diathermy is a valuable addition to the well known methods of treatment for local lesions. The selection of the hest form of treatment for the various types of lesions, variously situated, is of the greatest importance, particularly in the case of malignant lesions. For the latter a combination of methods may give the best results

Dathermy is of advantage over the other forms of cauterization because (1) It is not necessary to protect the tissues around the area treated (2) There is no bleeding during the operative procedures (3) The active electrode is easily carried into the nose, pharynx, or larynx, witbout burning any areas except those treated (4) Local aniesthesia with gas may be employed if necessary (5) Sternhation is effected by beat brought from the depth of the tissue, the wounds being therefore cleaner

Objections to it are the fact that the destruction, which varies according to the size of the patient and the size of the electrodes, is much greater than appears at the time of the operation, and there is danger of secondary bemorrhage. It is questionable, bowever, whether secondary bemorrhage is any more likely to occur with this than with other types of cauternation.

Diathermy seems to be particularly adapted to angiomata in adults. Formerly radium was buried in the tissue. In the cases of infants, radium is very satisfactory, but in those of adults its action is very slow and unsatisfactory. To destroy benign and mahgnant lesions in the nose, an electrode with a small point may be carried directly to the site of the lesions without burning other tissue, as in the control of bleeding of the septum or the destruction of small polyps of the nose. Diathermy is more satisfactory for the destruction of synechia of the septum than the use of the actual cautery as it causes less reaction.

For papillomata of the larynx both in adults and in children, the results so far have generally been satisfactory. In the treatment of malignant tumors about the nose, sinuses, and jaws, diathermy has almost entirely replaced the other forms of cauter ization, or is combined with radium. In cases of low grade malignancy, diathermy is the usual treatment, while in cases of more active epitheloma and lym phosarcoma, radium is usually depended upon to destroy the growth. The same is true of the pharyngeal lesions, radium being employed for the more active epithelomata and sarcomata, and diathermy for some of the low grade lesions.

For malignant tumors of the larynx the author prefers thyrotomy and evension, and laryngectomy While thyrotomy and destruction of a small lesson with diathermy should give a satisfactory result, cases have been reported in which cartilage was destroyed and other untoward results have followed

Diathermy has an important place in the treat ment of many lesions about the nose, throat, and mouth It may prove to be the best means of treating papillorms of the larynx in adults and possibly also in children

Any one measure should not be emphasized to the exclusion of others until experience has proved its value

## SURGERY OF THE NERVOUS SYSTEM

BRAIN AND ITS COVERINGS, CRANIAL NERVES

Revel Barbezier and De Martel A Case of Otle Abscess of the Cerebellum (Note au sujet d'un cas d'abscés du cervelet d'origme olique) Bull et mêm Soc not de chir 1925 lu 93

A man 37 years of age was admitted to the hospital February 4 302 with paralysis of the left aide of the lare and otorrhoa. His condition of torpor or hebetude suggested a serious interactanial completa of the trimpanim by the otologist caused an increase in the discharge from the ear and some improvement in the temperature and pulse but no improvement in the general condition. The torpor increased and the pulse rate decreased to 52. Operation was then proposed but refused.

On February 20 the patient complained of violent occipital headache and disturbance of balance lie was able to stand only by spreading his feet apart Romberg's sign was absent. Hypermetria was present on the left side and there was spontaneous nystemus. The ocular reflexes were normal and

the pupils were equal. There was no papilicedema. The puble rose to 70 teorpor uncreased and adadokokness developed There was more marked ballottement of the left hand than of the right. The diagnosis was chronic mastoidus complexated by facial paralysis cochica and vestibular lab vinithitis and probably cerebellar abacess. On March a the mastoid was opened. The antirum was found fulled with pus amount of the expanded of the laby right was normal as was also exposure of the cerebellar metringes two punctures failed to show ours. Drainings two punctures failed to show ours. Drainings was established.

After the operation the patient's condition improved very little. A neurological examination made July 6 showed even more marked symptoms of cerebellar abscess. At another exploration done March 7 another abscess was discovered and even uated. The toppor increased however and the patient died March 10 Death was due to the delay of surgical treatment the patient having refused operation for some time and to the fact that at the first operation only one of two abscesses was found

The authors have studied the reports of seventeen cases of certeblar abscess collected from the literature. In eleven the abscess followed chrome otorrhem and in six was due to acute or recent otorrhem. In their own case the ear disease was of two months duration. In fourteen of the eases reported in the literature the abscess was solitary in two there were two abscesses and in one therefore three In four cases the infection of the cere were three In four cases the infection of the cere.

bellum occurred by metastasis and in five there was a labyrinthitis or an osteritis of the internal cortex. In the authors case the infection must have been carried by the blood or through the perilymph spaces of the nerve trunks as the tissues adjacent to the cerebellum were intact

The symptoms described in most of the cale reports are not the focal ones but those due to in tra-cramal pressure viz headache somnolence or coma which are present in the majority of the cases and vomiting which occurs in 50 per cent. When papillerdema is looked for it also is found in about half Bradycardia was mentioned in only a fourth of the case reports studied and cerebellar symptoms in only twelve Adiadokokinesis hypermetria and difficulty in passive movements are mentioned in eight. There was lateropulsion on the side of the lesson or the apposite side in four cases and spon tancous deviation of the index finger in the same number The cerebrospinal fluid was rarely exam med although the authors believe the polynucleosis found in their case is an important sign Com pression of the homolateral pyramidal tract with its sequelæ Bahinski's sign epileptoid tremor, and exaggeration of the reflexes is mentioned in only three case reports Pressure on neighboring nerves was rarely described but in one case there was paresis of the fifth seventh and eleventh pairs and in the authors case the fifth seventh and eighth pairs were affected

The prognosses unfavorable in the seventeen cases reported in the hterature there were nine deaths. The high mortality is due to the fact that the abscesses are frequently multiple and only one is found.

In the discussion of this report. Curva called attention to the fact that the authors failed to say whether the cerebellum was entered inside or out whether the cerebellum was entered inside or out whether the trivial portion of the lateral sams. If stated that abscesses of out ongun are generally approached from minds the simus and the believes that this is, the best route. If the symptoms per sat, a second operation is indicated. If an abscess of this land has been approached from inside the sums and re-operation is indicated. Curne or plores outside the sinus at the second operation. He believes that Lemaites whether of using a tightly fitting drain for the meanings has been generally accepted.

Lampe W The Efficacy of the Substance of the Posterior Lobe of the Human Hypophysis (Ueber die Virksamkeit der Hinterlappensub stanz der menschichen Hypophyse) Wien klin Behneite 1926 XXIV 23

Several years ago Trendelenburg and Bergmann found in the posterior lobe of a human hypophysis a substance just as efficacious as the corresponding substance obtained from cattle Previously, Maresch and Pick had demonstrated the hormone in the human hypophysis In 1923, Smith and McClosky described a method of making a dry preparation of the organ which can be kept for years and accurately titrated Dry preparations were made by the author according to this method from twenty human glands

Immediately after their removal from the body, the glands were carefully split sagittally so that the borders of the anterior portion and the medial por tion could be easily seen. The two parts were then separated and the isolated posterior lobes placed in a 3 c cm glass and covered with acetone An hour later the acetone preparation was cut into small pieces and placed on ice, where it was kept over night Early the next morning the acetone was removed and the container placed in a drier for twenty four hours at a temperature of 37 degrees C

After three days the preparation was placed in a bag of hardened filter paper and extracted for three hours in a Soxhlet apparatus with so ccm of acetone The mass was then rubbed up to a fine powder in an agate mortar, placed in a drier for twenty four hours, and tested For the tests, a mgm of the substance was rubbed up with I c cm of a o 25 per cent solution of acetic acid, boiled, and filtered

The effect of this extract on the blood pressure was determined by experiments on decerebrate cats (threshold value from 10 to 15 mm Hg) and its antidiuretic effect was determined on dogs with vesical fistulæ (threshold value the dose which reduced the amount of urine from 20 to 25 per cent 200 minutes after the administration of 250 c cm of water) and on a Trendelenburg uterine preparation

The active principle is very resistant to external influences In the human hypophysis it is demon strable in various amounts. It has the well known characteristics of the preparations made from ani

#### Considerations on the Surgical Treat Lund R ment of Tumors of the Hypophysis chirurg Scand 1926 lix 491

Lund reports four cases in which an operation was performed on the pituitary gland according to von Eiselsberg's modification of Schloffer's method and two in which it was performed according to the Hirsch method In the first three cases there was a tumor which on microscopic examination was found to be adenoma. In one of these cases the result was good, but in the two others there was only temporary improvement in the patient's condition and death occurred six months and three years later respec-In the fourth case, in which the condition could scarcely be called a pituitary tumor death occurred immediately after the operation. In the fifth case there was acromegaly with symptoms which, like those in the other cases, showed that the tumor bad spread far over the border of the sella turcica Operation revealed a cyst filling the entire sella which was enlarged. The cyst was drained The patient died later of uramia On section, the remains of the tumor (an adenoma having its origin in the anterior lobe of the pituitary gland) were found extending far up into the cerebrum. In the sixth case operation revealed no tumor in the sella but after treatment with radium caused improve

Following these case reports the author discusses the various transcranial and transphenoidal metbods of operation He describes the Hirsch operation in detail Autopsy and roentgen investigations have shown that, instead of being thick and massive, the part of the clivus blumenbachii which adjoins the sella is often only a millimeter thick and that there fore probing toward the sella may be associated with the danger of penetrating to the pons cerebri

In conclusion the author discusses various diag nostic factors of importance with regard to the loca tion and extent of a tumor Marked involvement of the optic nerves is a sign that the tumor has spread upward far beyond the limit of the sella Choked disk is rare, but was found in the author's third case In the case of acromegaly the tumor had begun in side the sella Such cases and the chromophobe tumors of the anterior lobe of the pituitary body should always be operated upon by the trans phenoidal route Tumors of the præhypophyseal duct should always be operated upon transcram ally and cases of adiposogenital dystrophy should usually be operated upon in this manner

The sella turcica may seem to be of normal size

in the roentgen pictures, especially in cases of tumors of the preshypophyseal duct, and it may be greatly enlarged in the absence of a cerebral tumor (hydrocephalus) and in cases of cerebral tumors not related to the pituitary gland. When the cere brospinal fluid is not normal (pleocytosis) a trans cramal operation is contra indicated because the increase in the cells may be a sign of a connection through the floor of the sella between the meninges and the pharynx, in which case there would be con siderable danger of meningitis associated with that type of operation

Hammes E M Spontaneous Meningeal Hæmor rhage With a Report of Seven Cases Minnesota Med 1926 17 305

Of the three types of intracranial hamorrhage viz that due to apoplexy within the brain sub stance the traumatic type resulting in an extra dural clot, and the subarachnoid bleeding resulting from trauma or some other cause, the author dis cusses the last named

Besides trauma, he gives as etiological factors arteriosclerosis, acute bacterial infections (hæmor rhagic type) syphilis and chronic alcoholism In some cases the bleeding comes from the rupture of small aneurisms due to arteriosclerotic changes or congenital defects in the media of the blood vessel According to Goldflam, there is a true diapedesis in these cases

In fractures of the vertebræ with injury to the cord myelography has great possibilities. Its find ings may be decisive when the indications for operation are not clear. It is of value also for the recognition of so called late injuries of the cord following fracture of the spine such as pocket

formation and fibrosis of the meninges

In the technique used by the author 40 per cent odium is imperted into the esterna ecrebellonedul laris. The maximum dose is 2 c cm. The first puncture must penetrier the membrane. If other punctures are mide the todipin may escape from them into the musicks of the neck. The roentgan picture should be taken immediately after the injection and with the pittent in a moderately oblique.

Signs of irritation are noted in about 50 per cent of the cases but no deaths from the procedure have been reported. The absorption of the oil requires two years or longer. The possibility of injury depends upon the dose as was demonstrated experimentally by kless and Peiper. Nonne proved that in the dose use uffer year noidy in is not dancer.

ous to the human spinal cord

Myelograph, is to be regarded as a strictly surgical procedure and hould be performed only by those who are experienced in the work and on the most dennite indications

The article contains a number of excellent sketches and roentgen pictures Personal (Z)

#### PERIPHERAL NERVES

Sergent E Baumgartner R and Bordet F
Eight Cases of Phrenicectomy (1 propos de hust
ca de phrénieectom e) bull et mem noe méd d
hôg de par 1936 du 10

Alexander has reported 240 cs is of phrenicectomy without a senious accident 1 e whe reported one death on the day after operati n in a case of un lateral cascous pulmonary tuberculosis (not verified by autopsy) in which after functional ameliors ton pneumothorax with mediastimal emphysema developed and another death due to 150 physical which occurred on the operating table in a case in which phrenicectom was done as an adjunct to which phrenicectom was done as an adjunct to showed insulation brochectars. And autopsy showed insulation for the brochectars and proposite large Sergent performs the operation with the patient in the sitting position. This is advisable especially when there is considerable supertoration.

The cicatrical processes of rise curative valuenot the functional ametioartion which often results from simple immobiliation of half of the disphragim—may not occur until after from six to eight months. Hence failure of the operation must not be assumed to soon especially when the Issons are extensive old and complicated by phrenocostal adhesions in general the time required for recovery parallels the rate at which the disphragim becomes elevated The authors have never seen true and definite in provement without a marked rise of the purlived half of the disphragm. The earler and the more marked the rise the greater the chance of healing. An elevation of the disphragm of a z cm has practically no effect upon the kisson in some cases the ascent may be early and progressive but in others it may not occur until late and may not make marked progress until after many months

There is a chance of benefit as long as the rus of the duphrigm is not completely arrested but a delay in its rise not only relards but may destrop the effect desired as it permits extension or complications of the disease especially in pulmonary tuberculous and certain brenchicetases and suppurations of the base of the fung. The favorable effect of din phragmatic hemplegia on expectoration may cause

retention

The best indication for phrenicectoms in tuber culosis is a pleuropulmonary lesion limited to the base of the lung According to some statistics the operation is best performed as an adjunct to pneu motherax or theracoplasty but recently it has been performed independently of other procedures. In bronchiectasis limited to the base of the lung it may had to recovery unless the lower lobes have been rendered stony hard by the disease. The authors believe that phrenicectomy is one of the first sur escal procedures to be tried in unilateral bronch ectasis or abscess of the lower lobe. In such cases it is especially valuable as an adjunct to thoracoplasty or pneumothorax Diaphragmatic hemiplegia di minishes the danger of rupture to which a simple pneumothorax exposes an intrapulmonary suppu rative collection. Rist believes that the ideal treat ment for bronchieetasis is artificial pneumothorax and that phremeectomy should be limited to cases in which total or partial pleural union renders artificial pneumothorax impossible

The authors have performed phremeetomy in two cases of pulmonry tuberculosis four of broach ectasis and three of feeting pulmonary suppuration from the results they conclude that it is a relatively harmless procedure the effect of which vancs according to the nature and extent of the lessons

HALTER C. BURKET MD

#### SYMPATHETIC NERVES

Jonnesco T and Ionescu D Experimental and Clinical Investigations of the Functional Condition of the Heart and Blood Vessel Following Entirpration of the Certochomade Sympathetic Chain (Experimentale and Marchangen ueber Carlon and Entire Company of the Control of the Certochomade Certochomade Control of the Control of Cont

Experimental studies on dogs and human beings have shown that the accelerator nerves are not necessary for life. In patients subjected to reset tom of these nerves some time ago the authors found that the variation in pulse frequency and bolood pressure was within the normal limits.

Disturbances of rhythm were not observed Functional tests of the heart by means of graduated exercises gave good results in those recently operated upon and those operated upon some time previously In patients sympathectomized for angima pectoris, the pulse returned to its original rate within two minutes Exclusion of the coronary constrictor and other pressor reflexes is followed by improvement in the myocardial circulation

Roentgenological studies showed that Jonnesco s operation has no influence on the shape or the va

rious diameters of the heart

Experiments on dogs demonstrated that the removal of hoth stellate ganglia does not influence the various waves of the electrocardiogram. In clinical cases no increase in the conduction time was found even when hilateral sympathectomy had been done. In the authors' opinion, this fact

indicates that, in the absence of the accelerators the rain do not develop a negative dromotropic effect. Following the intravenous injection of o or mgm of adrenalm in the cases of hilateralls sympathectomized patients there was an increase in the pulse rate and hlood pressure. This observation shows that, in the absence of the accelerators, the heart reacts to adrenalm as it does under normal conditions.

After bilateral section and subsequent degenera tion of the sympathetic nerve endings, ergotamin in small doses caused a slowing of the pulse and a drop

in blood pressure

In conclusion the authors state that cervice thoracic sympathectomy is not a palliative but a curative operation as it causes the cessation of the attacks by removing all efferent pathways

RIEDER (Z)

## SURGERY OF THE CHEST

CHEST WALL AND BREAST

Warren S L The Bacterial Flora of Cancer of the Breast Am J M Sc 1926 clvx: 813

Warren cultured micrococci and diphtheroids from cancer tissue obtained from seven human hreasts without obvious areas of infection. The same organisms were present also in a beast affected with chronic mastitis and in parts of a breast to involved by cancer. Warren concludes that these organisms are casual inhabitants of the hreast structures and play no direct part in the production of cancer of the breast. From a review of the hierast true be concludes that Nuzums micrococcus which seems to be the same as the one he describes has been oh tained at different times in the past hut has been given different names. J FAINN DOOGLITY MD

Pfabler G E and Widmann B P The Relative Value of Various Techniques in the Radiation Treatment of Careinoma of the Breast as Reflected in the Statistical Analysis of 701 Frivate Cases with Observations as to the General Value of Radiation Radiology 1926 VI 403

During the past twenty five years Pfablers technique in the treatment of careanoma of the hreast has varied. The early cases were treated with unfiltered rays by fractional doses often repeated. After 1909 a leather filter was used first but later was gradually supplemented by aluminum filters. As more penetrating, rays were applied the thickness of the latter was increased and from 1900 to 1921 usually ranged from 4 to 6 mm. Since 1921, high voltage rays with a c 5 mm copper filter have

heen employed Up to 1905 the treatment was given chiefly over the operative field without definite limitations of the area involved Between 1905 and 1910 cross firme was developed the rays being delivered into the mammary region the avilla and the supra clayicular region Beginning at about 1910 definitely outlined fields of limited extent were irradiated this practice being followed until 1922 With the use of high voltage and highly filtered ravs fields hecame larger At first an intensive method of treatment was used the entire dose being given in from one to three days As this caused considerable radiation sickness it was gradually replaced by the use of less penetrating rays given in fractional doses over various areas depending upon the extent of the lesion and the patient's condition A table shows the radiation values according to the year of beginning treatment and expressed in percentages of patients alive after three and five years

The general impression gained by the authors was that each advance in technique was followed by an improvement in the results obtained. No accurate comparison year by year was possible because of the variability in the character of the cases treated.

With a view toward making approximate estimates of the value of radiotherapy in cancer of the hreast the histories of yor eases referred for such treatment are analyzed in detail and the findings compared with the statistics of cases treated by other methods. The cases tocluded early operable ones in which operation was contra indicated or refused, late operable cases tocluded any operable ones with glandular molve ment recurrent operable cases of advanced recurrence and metastasis, and primarily inoperable cases In some of them radiotherapy only was used in obters, it was employed in conjunction with

The arriele includes tables showing the types of cases the extent of the involvement and the duration of life after beginning treatment. The percentages of patients alive after three and five years in the different groups compare very favorably with those of surgical longerity fables especially in the late operable and recurrent cases. In the primarily importable cases treated by irradiation the average duration of life was considerably longer than in untreated cases reported by others.

An analysis of the results obtained indicates very clearly the great advantage of radiation therapy in carcinoma of the hreast as an adjunct to surgery and in the hopeless recurrent and inoperable eases. It is of value not only in increasing the duration of the hut also in releving the suffering Good end results depend upon the early recognition and early treatment of the condition. The patient will survive longer if radiation treatment can be instituted early —at the latest from two four weeks after

operation Acolon Harryng M D

Llopp E J Billings A E Manges W F and
Gibbon J H Symposium on Surgery of the
Breast Allante M J 1926 Zur 520 522 524

Knope in discussing carcinoma of the lateating breast calls attention to its marked maligamey and states that when the diagnosis is made it is too late for surgical intervention. Suppurative mastrias the condition with which it is most often confused is characterized by bright reduces of the same devalue of the temperature and developed the confusion of the lateating breats there is usually no lump and the skin shows a brawny induration. As most of the patients operated upon the within a few months

and many of the others show early involvement of the other breast klopp advocates treatment with radium and the X rays He reports three cases, in all of which the disease was rapidly fatal

BILLINGS states that progenic infections of the breast are usually caused by the staphylococcus or streptococcus aureus and result in either an acute mastitis or abscess formation. The abscesses are subareolar, intramammary, or retromammary opening superficial abscesses Billings uses the ordinary incision radiating from the nipple, but for deep abscesses be advocates more general use of the Thomas Warren incision (heneath the inferior surface of the hreast) with through and through drainage for generalized infection and the employ ment of Dalin's solution

Tuherculosis of the breast, which may be primary or secondary, is rare, only about 200 cases having heen reported The most common initial sign of tuberculous mastitis is a painless lump The course of the condition is more rapid than that of carci noma The suggestive signs are rapidity of develop ment and changes in the size and consistency of the tumor, early axillary lymph node involvement, a marked tendency toward the formation of abscesses and fistulæ, and retraction of the nipple The most satisfactory treatment is complete excision of the hreast and involved lymph nodes

Syphilis of the breast may he manifested by the initial lesion, a mucous patch, a diffuse mastitis of the secondary stage, or gumma formation difficult to make a differential diagnosis hetween gummata, the infiltrating mastitis of the secondary stage, and carcinoma, hut with proper investiga tion, laboratory aid, and, if there is doubt with

regard to the Wassermann reaction, a therapeutic test with antisyphilis treatment the nature of the condition will usually he revealed. The treatment of syphilis of the hreast is, of course, the treatment of constitutional syphilis

Actinomy cosis and sporotrichosis of the breast are very rare conditions due to fungi A diagnosis of either in the early stages is rarely possible. Only by laboratory aid can a positive diagnosis be made Excision of the involved tissue with the free admin istration of iodides internally and the use of Lugol's solution locally are the measures employed in the treatment of both

Manges bolds that in carcinoma of the breast I ray therapy is usually second in importance to surgery, but in cases which are not suitable for surgery, such as those with recurrence or metas

tases, it is of first importance

The X rays are of definite value in determining whether or not there are metastatic lesions in the chest or bones Such studies should be made routinely before operation. When there is evidence of metastases in the bones or within the chest the lesion is primarily inoperable

In advanced inoperable cases in which there is much destruction of breast tissue and the lesion is firmly attached to the chest wall or there is massive glandular involvement, or the intrathoracic lesions are extensive, a cure is not to he expected from the use of the X rays or surgery or of both If the pa tient still has the strength to withstand the reac tions from A ray treatment, the results in such cases are about as follows first, relief of the pain (at times this is striking, permitting the discon tinuance of morphine), second, control of the hæmorrhage and slougbing, third, retardation of the progress of the disease hoth in the primary growth and in the metastatic area, fourth, encour agement of the patient and to some extent restora tion of her social status, fifth occasional conversion of an inoperable case into an operable case, and sixth, prolongation of life

Postoperative X ray treatment should be given only when the wound bas healed sufficiently so that there will he no danger of its separating as the result of the action of the rays on the young scar tissue This time is from two to four weeks after

the operation

GIBBON states that in their zeal to operate early and thoroughly surgeons have become rather care less with regard to diagnosis and many of them make little attempt to differentiate from cancer any of the benign growths except the hard adenomata occurring in the hreasts of young women Any other mass in the breast of a woman near 40 years of age they have considered sufficient warrant for removal of the hreast

In an analysis of his last 200 breast cases (exclud ing infections), Gihhon found that the non malig nant breast conditions requiring surgical treatment were nearly as common as the malignant (45 per cent of the 200) The diagnosis of benign tumors is usually not difficult, but when it is, the decision should be made by the excision of considerable hreast tissue rather than by incision

Cysts of the hreast are very common and rarely undergo malignant change unless they are subjected to improper treatment such as irradiation are most common in women who have not borne children, and occur usually between the ages of 30 and 45 years As a rule they are single, but they may be multiple and sometimes occur simulta neously in both breasts A cyst is often a painful condition, especially if it is of rapid development The pain and soreness are increased by menstrua tion Palpation reveals circumscription and fluctua tion, the one when the breast is gently rolled on the chest wall under the hand and the other when the tumor is held against a rib and palpated with two fingers

When the breast is large and the cyst is small, fluctuation is sometimes difficult to detect and often overlooked

Enlargement of the axillary lympb glands is never present unless suppuration has occurred in the cyst which is extremely rare and easily determined from the local signs

Chronic cystic mastitis is not so early diagnosed as cancer or the single cyst because its physical signs are often more vague. It occurs as do exists and cancer at about middle adult life. The patient complains of pain or discomfort in the breast especially at the mensitual period a history rarely obtained in cancer. The area of the breast involved is usually the lower and outer quadrant and often a certain amount of induration and sometimes lobulation of the breast tissue can be felt in this region. Such patients should not be turned away with the statement that nothing is wrong but should be advised to present themselves every two or three mouths for commantion.

A shatharge of secum or of blood from the supple used to be considered evidence of miligrancy. This is not rare after the menopause especially if the lattic has been brought about be surgery reduced or the News and is of no serious significance. If invert if the discharge is accompanied by ulker tunn of the amplie or be a mass under it operation.

is an heated

The fit romata of more correctly speaking the adenomata is read in recognized. They occur in young adult life or a life one and they may be made or multiple. They are bard or tense freely mixable mouth in learth painful. The papil lars of tiden may a lingup tumor and has been included with this all mixed.

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(th) ner nm s th Themes or Watten in cara n tll in lauter periphers of the t 111101 il liest from the pectoral i clitin that the entire under arfus con l is light and the excision of a cert is it that I the pure up long breast is sue with the turn ere t It muts are all of the breitti a in le rem i through this mois n Ault tribum in I minimulative therapy they never he is ed in b man brea t condition m is timulate digenerative changes 31 D 1 111 1

## TRACHEA LUNGS PLEURA

Pouzin Malegue Y Sep atton of a Pleural Adhesion in the Court of the Fourth Year of Insufficial Incumothers (I)Collement du Hadderner pleurale au cours de la quatreme anné de insufficial production ray actifical de la mem Sec med d'hôp de Por 1926 mit 18

The author report the case of a patient 32 years old who was treated by extensive fibrocaseous tuber culossof the left lumb artificial pneumothorax over a period of four year. In the first year supections were made every fiften days in the second year every a weeks in the third year every four weeks and in the fourth year, every five weeks. Several insufflations were to ded by collapse of the lung

except in the left upper thorax which was blocked by an adhesion at the level of the blus (shown by the \tay). The treatment caused cessation of the brust almost complete subsidence of the functional symptoms and disappearance of the tubercle backlin from the sputtum. After four months the cough was negative the expectoration slight and the temperature normal.

The \times ray picture remained constant until the fourth year After a 400-c m injection with a terminal pressure of +6 during the fourth year the \times ray whosed retraction of the left apex toward the midline. On the following day pain suddenly developed in the left side and the temperature rose to 38 degrees C for two hours. The next insuffaction also was followed by fever but subsequent tayections were afebrile. The \times ray showed total pure motherax on the left side.

The author considers the case unusual The addresson was extremely solid for nearly three jeas it resisted an average pressure of +14 (sometimes +17) and in the fourth year yielded suddenly thereby transforming a partial into a complete pneumothorax. The case shows also that a non collapsed portion of lung does not necessarily have the visceral and parietal pleura adherent over its entire surface.

The partial pneumothoray gave a very satisfactory result. If collapse of the upper part of the left lung had seemed advisable it might have been accomplished by injecting above as well as below the adhesion. Walter C. Burker M.D.

### Manges W. F. Non Opaque Foreign Bodies in the Air Passages X. Ray Diagnosis and Localization. Best J. Radiol. 1926. xxv. xxp.

A non-quaque foreign body lodged in a bronchus may be diagnosed and localized by ments of the X-ray with almost the same degree of certainty as an opaque foreign body. Non opaque foreign bodys which are not found at the first examination are often revealed when repeated examinations are made. Most non-opaque foreign bodies belong to the vegetable kungdom. They may produce obstructive emphysema at electasis dround lung or lung abscess.

Obstructive emphysema is a condition in which

Observative employeems as a common in which we have death to the foreign body is overdistended with air because there is greater obstruction to the area of the apparatus that an an aspiration. The mean of the proposed that the state of the control of the foreign body. When it is in the min boundary one entire lung is overdatheded and may come to occupy a very large portion of the chest cavity at expuration. Therefore the X-ray signs of foreign body in a bronchus which are due entirely "mechanical factors are the following."

I Increased transparency of the affected lun the rays passing through the affected side mor readily

Depression and limitation of motion of the disphragm on the affected side. The disphragm on the affected side is frequently considerably lower it expiration than at inspiration because of the more powerful contraction of the intercostal muscles compressing the obstructed lung and forcing the dia phragm down. The excursion on the unaffected

side is at times most striking

3 Displacement of the beart and the other mediastinal structures to the unaffected side at expiration. At times the beart seems to swing like a pendulum from the upper mediastinum, and at other times it seems that the entire mediastinum, both upper and lower, moves laterally to almost the same degree. In the former case the obstruction is probably limited to the lower half of the chest, and when there is noticeable displacement of the upper mediastinum there is probably also obstruction to the upper lobe bronchus.

At electasis occurs when the size and shape of the foreign body are such that it obstructs the bronchus completely to inspiration. Whatever the cause of such plugging, the air distal to the foreign body is rapidly absorbed and the lung sbrinks to small size and becomes a mass of solid tissue casting a homo geneously dense shadow. The "ray diagnosis depends upon the density of the shadow, the diminution in the size of the lobe or lung involved, and the displacement of the heart and mediastinal structures.

to the affected side

Drowned lung is a condition in which exudate anising distal to the foreign body gradually goes by gravity into the smaller brouchi and air vesicles filling them and driving out the air or causing it to become absorbed. The exudate adds density to the lung shadow and may be present in such quantity that the lung involved may still occupy its normal space in the chest.

Lung abscess may occur fairly early after the aspiration of the foreign body. When there is evidence of an infectious pneumonia in the distribution of the bronchi of the lower lobe it is most probable that the lesson is due to the aspiration of foreign material unless there is a very definite history of

some other cause

When the foreign body is in the trachea the fol

lowing signs are noted

- r An increased transparency of both of the lungs
- 2 Depression and limitation of motion of both sides of the diaphragm. The diaphragm is lower at expiration than at inspiration because of the more powerful contraction of the accessory muscles of respiration. When there is obstructive employems of both lungs the diaphragm moves downward and seems to leave the heart supended in the chest so that its entire lower border is yisible.
- 3 Rotation of the heart so that its transverse dameter is less at expiration than at inspiration If it is found that the heart shadow is narrower at expiration than at inspiration, we may conclude that there is expiratory difficulty because the chest wall contracts at expiration even when there is expiratory obstruction

Occasionally there are cases showing overdisten tion of both lungs, but at the end of expiration the beart goes a little more to one side and the dia phragm is depressed on one side more than on the other

In such cases the foreign body is at the bifur cation and producing expiratory obstruction on both sides but a little more obstruction on one side because it has a tendency to go into the bronchus

on that side

When the foreign body is in the main bronchus and the expiratory obstruction is only slight, localization as to the exact position in the bronchus is difficult, but when the obstruction is more marked it becomes apparent that one entire lung is involved and the aorta as well as the heart is displaced laterally

When the foreign body is below the upper lobe bronchus and the obstruction is slight, localization is difficult, but when the obstruction is marked, the signs are positive for localization because it is seen that only the lower part of the lung remains over distended at expiration and the heart swings more like a pendulum with the aorta remaining fairly fixed

In true atelectasis and drowned lung the localization is apparent. In areas of infection the foreign body may either go into the center of the infected area or remain at its original location, held by contracting circational tissue.

RAMOON GREEN M.D.

Tucker G Recent Developments in Peroral Endoscopy Esophagoscopy and Bronchosco py for Disease Report of Cases Surg, Gynec & Obst. 1926 'tli 743

Tucker reports two cases of postoperative mas sive collapse of the lung which were examined

bronchoscopically

The first was that of a boy 13 years of age who was operated upon under other anasthesia for the drainage of an appendiceal abscess Thirty six hours after the operation the patient became very ill and collapse of the right lung was shown by the \ rays The expectoration was typically te nacious Bronchoscopy carried out forty-eight hours after the onset of symptoms showed the tracheal mucosa to be reddened and gray lower trachea and right bronchus were definitely inflamed The stem bronchus of the right middle and lower lobes was completely blocked by thick tenacious secretion. This secretion was aspirated Physical and X ray examination immediately after the aspiration showed that air was entering the right lung and that the displacement of the beart toward the right side was less. Within twenty four hours the collapse recurred, but at the end of forty eight hours the lung had begun to clear Bronchoscopy at the end of the third day showed a marked diminution in the inflammatory reaction of the trachea and bronchus The secretion was thin and could be aspirated without any difficulty Recovery was uneventful

The second case was that of a 6 year-old boy. who was operated upon under ether anasthesia for the closure of a gastrostomy fistula Thirty six hours after the operation pulmonary symptoms developed and by the end of forty eight hours there were typical signs of massive collapse of the lung At bronchoscopic examination seventy two hours after the operation the left bronchus was found greatly inflamed and filled with a thick tenacious secretion Following the aspiration of ro ccm of the secretion air entered the left lung. One and one half hours later roentgenograms showed the left lung to contain considerable air but after forty two hours the lung was again collapsed After the aspiration of 14 c cm of tenacious secretion the lung again became aereated Three days later because of a recurrence of the pulmonary collapse a third bronchoscopy was done. The secretion was then much less viscid. Three subsequent bronchos copies were carried out

Postoperative pulmonary abscesses may result from the inspiration of infected material or from a hlood horne infection. Those caused by the inspiration of infected material directly into the bronchial tree are hest treated by early aspiration through the hronchoscope. Three cases of pulmonary abscess treated bronchoscopically are reported.

Case 1 was that of a man 40 years of age who developed pulmonary symptoms four days after a tonsillectomy and was treated medically for four months Bronchoscopic studies revealed an abscess in the lower lobe of the left hung. Expectant treatment for four weeks hrought about slight improvement. The patient then developed a higher fever and the movice dersa increased in size. Eight hronchoscopic treatments carried out at semi weekly intervals the patient was first admitted to the hospital hronchoscopic treatment was fort admitted to the hospital hronchoscopic treatment was contra indicated by pelural involvement.

Case 2 was that of a hoy 7½ years of age who developed a cough the first week after a tonsillectomy. Upon his admission to the hospital seven weeks after the operation a pulmonary abscess was located in the right upper lobe. Following bronchos copy there was considerable fettid sputium. After a second bronchoscopy at which considerable pure leint material was apprated from the right upper lobe the temperature fell to normal and uneventful recovery resulted.

Case 3 was that of a man 30 vears of age who complained of pain in the chest two days after an operation on the lower jaw. Upon the patients admission to the bospital three weeks later an abscess was found in the middle and lower lobes of the right lung. Bronchoscopic treatment was carried out at weekly intervals. After five such treatments the inflammatory reaction had almost entirely disappeared. Three weeks later the bron class was practically normal and the bronchial tree free from pus. At the end of four months the patient was considered cured.

Tucker reports also a case of malignancy of the thyroid in which the bronchoscope was used as an aid to tracheotomy The compression and distortion of the trachea were so great that tracheotomy would probably have been impossible without bron choscopy In a case of lymphosarcoma of the mediastinum tracheotomy was performed with the bronchoscope in situ Because of the marked com pression of the trachea down to its bifurcation and compression of the left bronchus a Jackson cane tracheotomy cannula was used to permit free access of the air to the right lung In a case of retropharyngeal osophageal abscess which was drained the bronchoscope was used to keep the trachea open and to aspirate purulent material accumulating in the trachea

ALTON OCHSNER M D

kern R A Lung Abscess from the Medical Standpoint Am J Resembler 1985 to 40,00 February 1985 to 1985 t

KERY In many cases of lung abscess the respon sibility for the diagnosis and the selection of the method of treatment falls largely on the internist The multiplicity of causes producing lung abscess makes it impossible to speak of a typical clinical picture in the early stages as the symptoms depend in a measure on the cause. Abscesses of post pneu monic origin those following tonsillectomy or other operations in a septic field and those due to aspirated foreign hodies present different clinical pictures at the onset hut cases of long standing from any cause look very much able all showing evidences of long continued sepsis with the unmistakable signs of a lung lesion. The physical signs are varighle depending upon the location of the lesion and the stage at which the examination is made Deep abscesses and those near the hilum may give few or no signs, while superficial ones may present the findings of a localized consolidation or cavity Diagnosis by attempted aspiration is condemned

An abscess in an upper lohe is more apt to have adequate natural drainage than a lower lobe lesion and therefore is less likely to require external drainage

An abscess situated close to the lung hilum is not only in close relation to large bronch and therefore likely to drain spontaneously but is also in an excellent position for bronchoscopic approach. On the other hand an abscess close to the periphery of the lung which is connected with only small terminal bronchi can rarely be emptied satisfactorily by postural drainage and is difficult to reach with the bronchoscope. For the treatment of such a lesson surgery usually becomes necessary

All cases of lung abscess require medical treat ment at first regardless of their subsequent cour e This should include postural drainage, rest in bed during the febrile stage, and a high cabrie duet to maintain the patient's nutrition and strength. The drugs to be used depend upon the indications. Some cases are benefited by autogenous vaccines prepared, preferably, from uncontaminated material obtained through the bronchescope. Bronchoscopic treat ment also is frequently of great value. Medical treatment should not be persisted in too long. It should be checked by frequent careful observations of the physical signs and rontigen examinations. An abscess which has not cleared up at the end of three months is not very likely to do so thereafter without the aid of surgery.

PANCOAST The roentgen ray examination of a case of lung abscess should be preceded by a care ful chinical study. The purpose of the X-ray examination is primarily to confirm the chinical diagnosis, to furnish the additional information needed to establish it, or occasionally, to present the entire pathological picture necessary to explain the subjective symptoms or to correct a mistaken opinion

The interpretation of the roentgen ray evidence of pulmonary abscess is usually not difficult, but the findings are not always strikingly characteristic Roentgenoscopic examination is advisable when the condition of the patient will permit it If possible, it should be made in the erect posture in order to study the diaphragmatic movements, to observe fluid levels and to locate adventitious shadows so that the patient may be placed in the most advan tageous position for the roentgenographic examina Stereoscopic roentgenograms in the erect posture are always esential Direct lateral views in the erect posture are usually necessary to deter mine the extent and location of the lesion If there is a fluid level, there points can frequently be determined still more fully by making a fore and aft view with the patient lying on the unaffected side Finally, serial studies are frequently required for diagnosis because it is necessary to find cavita tion which may not appear at first or to await the clearing up of an obscuring, delayed pneumonic resolution, an excessive inflammatory zone or an atelectasis A case should be studied serially until the diagnosis is apparently assured

The cause of a lung abscess frequently has some bearing on the early reentgenographic appearance of the lesion. A postpineumonic abscess may be largely obscured by the changes of delayed resolution or other associated changes. A typical lung abscess presents two essential reentgenological appearances, acute consolidation and cavity. To these may be added such secondary findings as may be produced by extensive areas of congestion, at electasis, empyema or pyopneumothorav. Successive examinations will show varying appearances, depending upon webter regression or progression of the lesion is taking place. The results of treatment, be it medical, broncho scopic, or surgical can be studied best in this way Such complications as rupture into the pleural

cavity may be readily detected

TUCLER Bronchoscopy is of value in both the diagnosis and the treatment of lung abscess. In the diagnosis it will give information relative to the location of the lesion and indicate the amount and character of the pus and indicate the amount and the local condition of the bronch in the affected area. Uncontaminated cultures may be taken from the suppurating area for the determination of the bacteria present or the making of autogenous vaccines. Neoplastic growths can be ruled out. Foreign bodies which may be etiological factors can frequently be located and removed.

Therapeutically, bronchoscopy may be used to aspirate stagnant sceretions remove granulations, dilate trictures, and apply medicaments locally Bronchoscopic aspiration is indicated particularly when the lesson is in or in close provimity to the bronchi and drainage is deficient, also in the acute cases with definite evidence of aspiration infection

The bronchoscopic treatments are carried out once or twice a week as the lesion and the condution of the patient may indicate. Under bronchoscopic treatment many patients are benefited and many are cured none are made worse. In some cases the progress of the disease has not been arrested. In a few of these a more definite localization of the lesion has occurred, making the abscess more accessible to external drainage. A case demon strating the value of bronchoscopic treatment 1, reported. It would be a mistake to undertake the bronchoscopic treatment of lung suppuration in dependently. The interests of the patient are best served by co operation of the internist, the roent genologist, the pronchoscopist, and the surgeon.

MULER The treatment of lung abscess resolves itself into adequate drainage, of the cavity and dilated bronchioles. When this cannot be done satisfactorily by the postural method or broncho scopic aspiration in about two months, surgery is indicated. In cases in which drainage is established but the cavity persists after several months, external drainage must be considered. Drainage with the aid of artificial pneumothorax has been advocated but has not been universally accepted. The principal objection to surgical treatment is its high mortality but this is probably not a direct consequence of the operative treatment itself. The disease is a serious one and operation is usually per formed months after its onset as a last resort

Before operation the patient's condition should be improved as much as possible. Salt water infusions or blood transfusions should be given when in dicated. The operation should be done preferably in two stages, the lung over the abscess bing allowed to become adherent before it is opened. After the cavity has been entered with the cautery draunage should be established with a soft rubber tube. Subsequently if the patient's condition warrants it and the pathological changes present require it, more extensive surgery may be done, such as cautery pneumectomy as introduced by Graham and Singer. Draunage should be continued

for at least six months especially if there is evidence of a bronchial fistula. The patient should be kept under observation by the climican bronchos copist roentgenologist, and surgeon because 'flare ups frequently occur and sometimes senous symptoms develop suddenly after recovery seems assured. Acuter Hartuna, MD

#### **GESOPHAGUS AND MEDIASTINUM**

Gaudier II Median Sternotomy as a Palliative Decompressive Treatment for Tumors of the Mediastinum (Sternotomic mediane comme traite ment palliati décompressif des tumeurs du médi astin) Bull et mém Soc not de chir 1926 In 245

Gauder reports the case of a noman of 40 years who had a tumor of the breast removed. Ten years later a metastasis developed in the mediastimum without any local recurrence. The right arm then became greatly swollen and the patient suffered from disphagia. crues of asphyria, and almost unendurable pain. She was given deep reentigs a

therapy, but after each treatment the symptoms became more severe probably because of congestion and increased pressure

Under local anasthesia a flap of skin and aponeurosis was turned back and the line between the uphoid process and the sternum was sectioned. The sternum was then incised along the midline and its lower surface carefully dissected free from the

underlying itssues
The patient immediately felt the most profound rehef as if she said a corset that was too tight had been removed. The two halves of the sternum separated 3 cm. In order to keep the space open on respuration a flap was cut from each side its base being left adherent and sutured to the opposite side with silt. A drain was left in for forty eight notice that the side of the space open on the state of t

AUDREY G. MORGAN M.D.

## SURGERY OF THE ABDOMEN

### GASTRO-INTESTINAL TRACT

Rose E The Relation of the Chlorides of the Body to Disease of the Gastro Intestinal Tract 11lantic M J 1926 vviv 613

Chlorides are present normally in the plasma in a concentration ranging from 100 to 108 millimols. This method of expressing concentration uses the same limits as those ordinarily employed in designating the degree of fire and total acidity of the stomach contents and is equivalent to expressing the concentration in cubic centimeters of 10/N per 100 c cm

The sodium of the plasma constitutes about 93 per cent of the total fixed base of the plasma in man, while the Cl ions form about 65 per cent of

the total acid radicles

Normally, the concentration of chlorides (partly as HCl and partly as NaCl) in pure gastre juice as secreted varies from 140 to 170 millimols, while after a test meal it is from one third to two thirds this amount. Hydrochloric acid activates the pepsin controls certain phases of pyloric action, and acts as a bactericide. In carcinoma of the stomach the concentration of chlorides in the chy me has been found to he from 75 to 115 millimols. While in other henign achylus it ranges from 40 to 75 millimols.

In pernicious anamia there is a deficiency of both hydrochloric acid and sodium chloride. This deficiency impairs gastric digestion and may account for the annoying gastric symptoms. Therefore large doses (4 to 8 c cm.) of hydrochloric acid with pepsin are advocated in the treatment of pernicious.

anæmia

In pyloric and duodenal obstruction experiments have shown that there is a constant fall in the blood cblorides with a rise of the blood urea mitrogen and non protein nitrogen Similar findings were made in obstruction of the pylorus and upper intes tinal tract in man. The administration of sodium chloride with sufficient water in these cases app ars to evert a heneficial action and should be used as an adjunct to surgical treatment Hydrochloric acid does not exert a similar action According to Haden and Orr, the chlorides of the body have a specific antagonistic action on a toxin produced in the obstructed gut Gamble finds that after pyloric or duodenal obstruction there is a loss of chlorides into the stomach both as hydrochloric acid and sodium chloride and suggests that it is the loss of the sodium with the attendant diminution of the total salt concentration of the blood which proves fatal in such cases unless the blood concentration is restored to normal by the administration of sodium in the form of NaCl HERMAN H HUBER M D

Abt I A, and Strauss A A A Clinical Study of 221 Operated Cases of Hypertrophic Congenital Pyloric Stenosis Med Clin N Am 1926 ix 1309.

Of 221 patients operated upon for congenital hypertrophic stenosis of the pylorus 161 were males and the majority were between 3 and 8 weeks

of age

Vomting was a sign in all of the cases, and occurred most frequently during the second or third week of hie As a rule it was of the projectile type Constipation beginning most frequently during the third or fourth week was present in 158 cases Between the second and fourth weeks there was usually a loss of weight, varying from 4 oz to 4 lbs 8 oz Among the less frequent symptoms of the condition were constant hunger, restlessness, crying and fever

Typical large penstaltic waves starting at the left hypochondrum and passing obliquely across to the right were observed in all cases immediately after the haby was given milk from the breast or water from a nursing bottle. A timor—the hyper trophied pylorus—was definitely palpable in about 25 per cent of the cases. Some degree of emacation was present in all. The fluoroscopic examination for which a small amount of banium was added to the breast milk given the infant while it was under the horizontal fluoroscope absolutely confirmed the diagnosis of pyloric stenosis.

The rhythmic, snakelike peristaltic contractions seen in the polorus, independent of the contractions of the rest of the stomach are definitely pathogno monic. In the author's cases the fluoroscopic examination is repeated at the end of two and four hours at which time roentgenograms are taken. If one half or more of the barium milk remains in the stomach at the end of four bours the case is referred for operation. When more than 80 per cent passes

through operation is deferred

As a rule, patients are not subjected to operation immediately upon their entrance to the hospital. An attempt is made to improve their condition before operation. From roo to 150 cc m of saline solution is given by hypodermoclysis every four hours and from 1 to 2 oz of 5 per cent glucose with 2 per cent sodium linear bonate is given per rectum every three hours. If their condition is poor, from 50 to 100 cc m of glucose, usually followed within six hours by from 60 to 80 cc m of glucose, usually followed within six hours by from 60 to 80 cc m of glucose, usually subject to longitudinal since

The operation is similar to the Rammstedt pyloroplasts but the mucosa is shelled out more freely from the muscularis and a plastic flap is made of the musculari. The free edge of the attached While the patient is still on the operating table, too cern of normal saline solution is given by hypodermoclysis. Feeding is resumed early. Be ginning within one bour after the operation, it of breast milk is given every two hours the first day. The amount is then increased ½ dr. every few hours. At alternate hours water is given. Glucose per rectum is given as previously described.

All infants gain weight while they are in the hospital and continue to do so after they leave Comiting and digestive disturbances have not recurred in any of the cases traced

RATMOND GREET M D

St John F B Long Standing Ulcer of the Stom ach Ann Surg 1926 lyxxii 852

The author reports a case of gastne ulcer with a history of forty years. The patient a 50 year old woman was first operated upon twenty years ago when a large gastne ulcer on the lesser curvature was excised. The next operation ten years ago was an anterior gastro enterostomy. Three years later symptoms recurred and at a third operation ad hesions about the stomach were divided. Again the patient received temporary relief but returned seven years later because of severe abdominal pain and yomiting.

St John then did an exclusion operation by sectioning the stomath at the juncture of the upper third and the lower two thirds well above the incisum angularis and performing an antenor long loop gastrojejunostomy. The patients condition did not warrant the division of adhesions and resection of the distal portion of the stomach Today three years after the operation the patient is able to est an unrestricted diet without nausea pain or vomitting.

Lecène The Rôle of Infection in the Development of Ulcers of the Stomach (Sur le rôle de Infec tion dans lévolution des ulcères de l'estomac) Bull et mém Soc nat de chir 1926 lu 326

Duval has said that infection plays a most important rôle in the evolution of gastric ulcers and that infection of the ulcer is responsible for most of the deaths and also most of the complications following operation for gastric ulcer

If this theory is correct the excision of an active under is associated with the danger of increasing the virulence of the hacteria in the lesion. Therefore the food given the patient hefore operation should be rendered as aseptic as possible the pre-operative preparation should include gastric lavage and during the operation great care should he taken to protect the tissues surrounding the operative field. Pre-operative vaccination and postoperative serotherapy may also he used

Lecene does not agree with Duval that the stoma of the gastro-enterostomy should he made as far distant from the ulcer as possible. He places it as near the pylorus as possible to prevent biliary reflux and vizious circle. He does not believe that the ulcer infection is responsible for pertioneal infection around the suture line or for postoperative gastro jejunal or jejunal ulcers. In his opinion, the cause of these conditions is still unknown. He has seen peptit ulcers appear as late as eleven, years after gastro enterostomy for ulcer although during all of that time the patient's digestion was normal. The ulcer in such a case could in no way he attributed to prolonged infection.

Rather is Lecene inclined to blame the technique of the surgeon. The technique used today must be still further perfected. Lecene emphasizes the importance of perfect protection of the operating held rigorous harmostasis, and the greatest care in

suturing

In conclusion the author says that before we can determine the cause and treatment of ulcer the problems of hydrochloric acid secretion of the gastric glands and the defense of the gastric and intestinal mucosa against autodigestion must be solved EXELOGS FREED MD

Lambret O Preventive Vaccination Against Pul monary Complications in Operations on the Stomach (A propos de la vaccination préventive des complications pulmonaires dans les opérations gastinques) Bull et mêm Soc nai de chir 1926 lis 276

The author has just completed a series of 300 consecutive gastric operations without a single fatal complication. Slight complications occurred in fifteen cases

In o5 per cent of the cases the operation was performed under local anæsthesia

To prevent pulmonary complications Lambret resorts to vaccination First an intradermal test is made. If this is negative vaccination is unnecessary If it is positive an injection of i c cm of a solution of enterococcus is given and repeated every second

The solution used for the first injection contains so million of the organisms that used for the second soo million that used for the third rabilion that used for the fourth inlinon, and that used for the fifth, sixth and seventh 4 billion After the injections have been completed the intradermal test is negative

Patients with a positive intradermal reaction have no specific antibodies against the enterococci in their blood. Vaccination according to the method described causes the appearance of such antibodies. When the reaction is negative, the vaccine is unnecessary and dangerous.

Vaccine should not he made from too active bacteria. The doses should he increased progressively as described.

The author bopes to reduce the time consumed in this immunization by the use of hacteriophages given by mouth a day or two hefore operation He suggests that the hacteriophages might he introduced also into the operative field.

KELLOGG SPEED M D

Duval Roux Gatellier and Moutler The Relations Between the Infectious State of the Gastric Wall and Certain Troubles Following Gastro Enterostomy Vicious Circle Acute Chronic or Delayed, and So Called Gastrojejunal Pentle Ulcer (Relations entre l'état infectieux des parois gastriques et certains troubles consécutifs à la gastro entérostomie circulus vitiosus aigu chronique tardif ulcère dit peptique gastro jéjunal) Bull et mém Soc nat de chir 1926, hi 270

About three years ago the authors published an article in which they advanced the theory that an important factor in the development of certain chronic gastroduodenal ulcers and of complications following gastric operations is infection in the stomach wall and the perigastric lymphatics Today this theory is generally accepted in France and is

becoming widely accepted in Germany

The complications arising after operations on the stomach, especially gastro enterostomy, are of two kinds—vicious circle and gastrojejunal peptic ulcer Vicious circle is of different types, viz, acute gastro duodenal dilatation, chronic vicious circle according to Finsterer, and postoperative delayed vicious circle For a long time acute dilatation of the stomach has been regarded as the result of a local ized perigastroduodenal peritonitis. The authors classify with this type of postoperative peritonitis certain chronic syndromes of vicious circle coming on between the seventh and the tenth day after operation and characterized by cbronic comiting, bilious vomiting, or mixed intestinal and bilious

In several such cases in which a second operation was done a subacute localized submesocolic peri tonitis was found. Late vicious circle must arise from late stenosing adhesions about the duodenum, the stoma, or the efferent or afferent loops of the

small intestine

The authors report the case of a woman who, after a gastro enterostomy, bad severe vomiting and a fever up to 38 degrees C The vomiting continued for ten days At a second operation a band of mesentery across the stomach was released The vomiting then ceased

A case of the late type was that of a man who ran a fever of 39 degrees C for several days after a gastro enterostomy and a year later began to have hiliary vomiting. A second operation revealed adhesions from the mesocolon which had blocked and dilated the duodenum Duodenojejunostomy resulted in a cure

As an immediate postoperative complication there is rapid dilatation of the duodenum. When the peritonitis is rapidly spreading with reddening of the serous surface this results in early death from intoxication When in cases of more attenuated peritonitis the gastric dilatation develops much later, and especially when the vicious circle is chronic, operation reveals an organizing peritonitis with membrane and stenosing adhesions around the duodenum, the stoma, or the jejunal loops Removal of the adhesions will effect a cure. These newly formed peritoneal adbesions must come from infection in the field of operation

In the search for the source of the infection, the operative technique should receive first considera tion In the early days of gastro enterostomy vicious circle was quite frequent, hut today, with the perfected technique, it should be very exceptional The operative manipulation may provoke an irritative peritonitis and the opening of the stomach and bowel may permit direct infection of the peri toneum

Gastric ulcer seems to be associated with a true gastritis Most gastro enterostomies are done near the antrum The wall near the antrum is very liable to be infected and most ulcers are situated there Unfavorable sequelæ occur most frequently after gastro-enterostomy Gastropylorectomy is free from them as in pyloric resection the zone of gastritis is usually within the resected portion and the incision is made through normal tissue

The authors do not apply this direct infection theory to the formation of peptic gastroduodenal ulcer Jejunal ulcer they believe with Chiari, is

merely a septic ulcer

In one of their cases they found at the end of ten months an ulcer of the stoma of the gastro enteros tomy, marked infiltration of the mesocolon, the stomach and the jejunum around the stoma, and enlargement of the lymph nodes in the mesentery Microscopic examination of the ulcer of the posterior lip of the gastro enterostomy showed typical sub acute diffuse inflammation. A culture from a lymph node yielded staphylococci and a culture from the ulcer showed both staphylococci and streptococci

They believe therefore that these ulcers are caused by including a part of the inflamed gastric wall, and that the infection is not confined to the new opening but spreads along the efferent jejunal They do not believe that unabsorbable suture material has much to do with the develop ment of ulcer unless it is used in septic tissue, under which circumstances it may become a factor. The stomach clamp applied to a septic tissue may cause ulcer as the result of induced ischemia and the intraparietal effusion of blood. The use of hemo stats and forceps in the mucosa may also fayor ulceration if the tissues are septic

The theory that the acid formed by the pyloric portion of the stomach causes renewed ulceration, a theory which has led to many resections of the stomach by German surgeons, may he quite wrong masmuch as the resection of the pyloric portion may remove all of the infected stomach wall Certainly jejunal ulcer is avoided by gastric resec-

The fact that jejunal ulcer may occur after pyloric exclusion with gastro enterostomy is explainable Operations on jejunal ulcers have a high mortality, probably because they are performed on septic tissue KELLOGG SPEED, M D

Ascoli M The Changes in the Gastrie Chemistry
After Resection of the Stomach (Le modifica
zoni del chimismo gastrico dopo le reseamni dello
stomaco) Policlin Rome 1926 xvviii sez chir

The substances which ordinarily neutralize the gastric acidity are the pancreatic juice and the bile After a Billioth I resection hile can enter the stomach only through the new pyloris during regurgitation. After a Billioth II operation all substances entering the duodenum are passed into the stomach by way of the jejiumin but according to some investigators their quantity may not be outer sufficient to neutralize the gastria can be

In experimental studies Antensiten found that after gastro enterostomy performed by different methods hile and pancreatic junce at first flowed constantly into the stomach but later the flow was governed by the activity of digestion. He concluded that the constant lowering of the gastric acidity is due in part to the alkaline substance pouring in from the duodenum and in part to the decrease in the production of hydrochloric acid.

Other investigators believe that the pancreatic secretion is depressed to the same degree as the gastric secretion. Ascoli has constantly found hypoacidity and anacidity. The amount of free hydro chloric acid was usually zero and the total acidity varied between zero and 10 per cent Usually also there was a diminution in the pancreatic juice Ascoli studied eighteen patients seventeen of whom had a gastric or duodenal ulcer and one an epithe lioma of the pylorus The operations performed were the Polya Balfour resection in seven (including the case of epithelioma) resection by the Billroth I method in five midiastric sleeve resection in five and cuneiform excision of the ulcer in one Except in the case of ulcer excision chemical examination was made in all cases up to twenty five days after the operation

In the cases treated by the Billroth I operation from 50 to 60 ccm was obtained on aspiration in those treated by the Polya Balfour operation from 15 to 30 ccm and those in which slever resections were done from 0 to 30 ccm. Accordingly there was no paralysis of secretion. After the Billroth I operation and sleeve resections there was always evidence of free hydrochior and but after the Polya Balfour resections there was a considerable decrease in total aculty, and in all everythere cases absence of free hydrochionic acid. In three cases a trace of free hydrochionic acid was found. These facts are explained by the lack of reguigetation of panetatic juice.

The regurgitation of bile also varied In only one of the seven crose subjected to a Polya resection was bile always present in the stomach. In those treated by sleeve resection it was always waring Of the cases in which a Billroth I resection was done ble was found twice. After Polya resections the stomach empited itself of food in from sixty to seventy five mutites.

The author's findings are summarized as follows In The Pdy's operation was followed by a lowering of the total actidity and almost complete achlority dria probably caused by the loss of a certain amount of scienting mutosal surface the entrance into the stomach of alkaline duodenal jutices as shown by the presence of his pigment, and increased rapidity in the emptying of the stomach which decreases the stimulus for the formation of mastire secretion.

2 After sleeve resections no notable changes were found There was no change in the function of the pylorus

3 After the Billroth I operation two types of results were noted depending on whether or not there was regulgitation of hile and pancreatic juice helicode Speed M D

Case J T Diverticula of the Small Intestine
Other Than Meckel's Diverticulum Bull
Buttle Creek Sanit & Hosp Clin Battle Creek
Michigan 1936 xu 87

Case reviews the findings in 6.847 complete bright meal studies. There were eight five cases of duodenal diverticula four cases of jejunal diverticula and one case of diverticula in the jejunum and ileum.

Duodenal diverticula vary in size from that of a pea to that of a ben seg and ne usually located in the second portion of the duodenum. They occur most frequently in females. Their emptying time is greatly prolonged. The large sacs contain no mus culairs. The submucoss which is thickened con sists of loose connective insue richly supplied with blood vessels. The diverticula are usually sur rounded by adhesion. The sacs are sometimes instinutely adherent to the surrounding paniciatic tissue and their excision may be difficult especially if they have undergone pathological change in the proposed panicial to the surrounding paniciality in they have undergone pathological change.

The diagnosis depends entirely on the roentgen findings. A special fluoroscopic technique is described A diverticulum is suggested by a spherical shadow near or within the curve of the diodenal shadow which is independent of the Lutter but bears a definite relationship to it and persists for hours or days after the clearing of the stomach. Usually there is no tenderness at the site of the shadow

Most diverticula are funnel shaped. If hand manipulation can move a diverticulum or express its contents the sac is usually ventral to the pan creas and can be resected.

Diverticula in themselves may not cause any trouble but as they are often associated with ulcer of the duodenum or disease of the gall bladder or pancreas or may become the sites of inflammation their removal should he considered when they are discovered in the course of an operation on the duodenum or gall bladder. Diverticula with a very prolonged retention time should probably be removed. When surgical treatments not indicated or cannot be carried out by sgeine care of the intestinal tract and the administration of large doses of barum subbata er and visable. Heaven II Hugers M.D.

Saraceni F Antonucci, C and Celiberti, A A Ray Visualization of the Duodenum by the Introduction of an Opaque Fluid Through the Elnhorn Tube (La indagine radiologica del duodeno mediante introduzione di liquido apaco attraverso la sonda di Einhorn) Policlin, Rome 10 6 TEXIII SEZ Chif 50

The authors report six cases in which an \ ray study of the duodenum was made by the intro duction of an opaque fluid through an Einhorn tuhe One of the subjects was an entirely normal person, the others were suffering from duodenal ulcer or periduodenitis. They were prepared as for the ordinary gastric examination The tube was introduced without difficulty, and hecause the duo denum is really a dorsal organ, the X ray exam mation was made with the patient in the ventrodorsal position The stopping point of the olive tip is very important If the tip is too high there may be a hack flow of the fluid through the pylorus, while if it is too low, the filling of the bulb, the most impor tant part of the duodenum, will be unequal and incomplete

After the introduction of from 50 to 100 c cm of the barium preparation, the \ ray examination is made immediately in order that the entrance of the barium into the jejunum may not obscure the pic ture During the examination the patient holds his breath Forcible injection from a syringe does not cause discomfort even when a lesion is present. An aqueous preparation of barium sulphate is used as the oily preparation passes out more quickly It must not be so thick that it will block the tube

When the preparation is injected with mild pressure at first, it is stopped at the olive point hy an annular spasm at that point, but in a short time it fills the duodenum rapidly in an antiperistal tic direction toward the duodenal bulb, expressing

practically all air that is present

If the filling of the bulb is massive, the upper border is normally regular and cup shaped. In the dorsoventral position it is seen that the duodenal bull is situated in the vertical axis of the descending portion of the duodenum The contours of the bulb and the upper part of the descending portion are clear cut, while those of the lower transverse portion are finely dentated The caliber of the lower half of the descending portion is much larger than that of the upper portion The opaque preparation renders visible all parts of the bulb and the descend ing portion a few moments after its introduction No compression is necessary

KELLOGG SPEED, M D

Haipert B The Arteriomesenteric Occiusion of the Duodenum An Anatomical Study Bull Johns Hopkins Hosp Balt 1926 xxxviii 409

Halpert reports a case of arteriomesenteric occlu sion of the duodenum and by means of a drawing shows the topographical relationships of the dnode num, the left renal vein, and the superior mesen teric artery

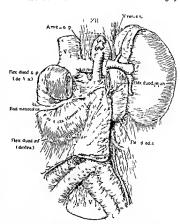


Fig. 1 Drawing from different stages in the dissection of the specimen, showing the topographical relationships of the duodenum the left renal vein and the superior mesentene artery The flexura duodenojejunalis is shifted downward in order to show the yena renalis sinistra in the angle between the aorta and the superior mesentenc artery

The occlusion is usually caused by a fold of the mesentery belonging to the small intestine, which is displaced into the minor pelvis. In the case reported the duodenum was compressed between a mesenteric fold and the aorta or vertebral column Up to the point where the fold crossed the duode num, the gut was found to be distended, beyond, it was collapsed and emptied

This condition is apt to occur especially in cases of peritoneal abnormalities. In the author's case, fusion of the ventral and dorsal layers failed to take place along the tema omentalis of the transverse colon The transverse colon was therefore lower in the abdominal cavity than normal and the loops of small intestine shifted down into the pelvis so that the mesentery formed a fold across the duodenum

The treatment for such cases is duodenojejunos tomy (Barker Stavely operation)

A displaced excum is not apt to exert sufficient tension on the mesentery of the small intestine to produce an obstruction of the duodenum, but it does so on the mesocolon if the right half of the colon has a mesocolon and is freely movable. This type of an occlusion is termed "arteriomesocolic" For its rehef, Bloodgood recommends resection of the cacum or the right colon, and Wilkie a colopexy

HERMAN H HUBER, M D

Draper J W The Pathogenic Colon Ann Surg

In adolescents who suddenly develop epilepsy or a functional psychosis a toxic form of cerebral cellular disorder is to be found. Recent study has shown that many epileptic and psychotic patients are suffering from a hereditary chrome intestinal invalidism giving rise to intra abdominal defects of the colon and omentum.

Slight congenital cerebraf abnormalities may cause symptoms only when they are complicated by the toruns of focal infection, the sources of which are demonstrable and will yield to surgical and

medical therapeusis

The relief of neuromental symptoms in a large percentage of 164 patients after colectomy, indicated to the author a connection between the toxic factors and psychoneuroses

LARL G GARSIDE M D

Dukes C Simple Tumors of the Large Intestine and Their Relation to Cancer Brit J Surg 1926 xiii 720

Dukes attacks the problem of the relationship of simple tumors to cancer of the large intestine from three points of view (1) the development and structure of the simple adenoma (3) the association of simple tumors with malignant tumors (3) the intimate structure of early adenocarcinomata of the rectum and colon

Four stages are distinguished in the development of adenomat. The first is epithelial by perplasia with deepening of the crypts and lengthening of the vill the second bending of the musculars mucosabranching of the original will the formation of new vills and impairment of marginal growth the third increased bending of the muscularis mucosa and further branching of the will leading to an increase in the secreting area and the fourth the formation of a stall, and the development of similar secondary growths leading almost inevitably to the formation of cystic space.

Dukes finds adenomata in 75 per cent of all cases of cancer of the rectum and sigmoid. He has found them within a radius of 3 in of the cancer and believes that if a search were made for them further from the cancer they would be discovered even more frequently. He concludes that well developed adenomata are present in the portion of bowel between the execum and sigmoid in only about to per cent of the population whereas small tumors are almost invariably present in the mucosa sur rounding a cancer of the rectum or sigmoid.

The structure of adenomatata associated with cancer is essentially similar to that of simple adenomata. The tumors consist of a central stroma of connective tissue with dilated blood vessels and are covered by a thick layer of columnar epithelial cells. The author is of the opinion that the simple tumors precede the formation of the cancer.

The structure of early adenocarcinomata resem bles that of adenomata Dukes believes that the malignant changes occur in the cells between the adjacent tumors which because of their position become restricted in growth and irritated. He gives the stages in the development of carcinoma of the rectum as (i) spotty epithelial proliferation in an extensive area of mucosa, (2) the formation in an extensive area of mucosa, (2) the formation in this area of a group of adenomata (3) indiding of the mucosa between the adenomata and (4) irritation of the cells between the primary and secondary tumors with subsequent malignant degeneration.

### LIVER, GALL BLADDER PANCREAS AND SPLEEN

McCoy C C and Craham R S Cholecystog raphy in Operative Cases J Am M Ass rg26 lxxxv1 1899

In the series of twenty six cases reviewed in this article sodium tetra iodophenolphthalein was given intravenously and a roentgenographic examination

was made twelve hours later

In five cases a diagnosis of cholelithiasis was made with cholecystography and stones were found at operation Of thirteen cases in which a diagnosis of biliary tract disease was made gross evidence of disease was found. While in two of these cases there was no evidence of disease at operation microscopic examination of the removed gall blad der revealed a mild chronic cholecystitis in one and cholangeitis in the other Of eight cases in which the gall bladder was believed to be normal it appeared normal at operation in seven and was therefore not The cholecystographic findings were removed. accordingly confirmed in 96 per cent of the cases Of 212 cases collected from the literature the chole cystographic diagnosis following the intravenous injection of the dye was confirmed in or per cent HERMAN H HUBER M D

Craham E A Cole W II Copher G H and Moore S Cholecystography The Use of Phenoletra Iodophthalein J Am W Ass 1026 IXXVI 1800.

Phenoletra iodophthalem is superior to its isomettern iodophenolphthalem. It produces shadows with smaller doses (o o gm per kilo in 30 c cm of datalled water) it is followed by fewer and less severe toxic reactions it is associated with less danger of thrombophebits and it is more readily extreted through the liver. Four hours after the administration of the drug excellent gall bladder shadows are obtained. Oral administration gives less accurate findings.

Bazin A T infections of the Billiary Tract
A Stock Taking of Diagnosis and Treatment
Canadian II Ais J 1926 xv1 632

The recognition of early mild symptoms of bilary tract disease is essential for the prevention of acute crises. The gall bladder is the first part of the hilary tract to be attacked by an infection the extrahepatic and intrahepatic ducts being involved.

secondarily The channels of infection to the gall bladder are the systemic circulation, the lymph drainage the portal circulation, and the ducts from the duodenum Acute cholecystits may attack a normal gall bladder, but is usually superimposed

upon a chronic cholecystitis

The symptoms of biliary tract disease often date from an infectious illness such as typhoid fever or influenza or from a pregnancy complicated by prelitis. They are those of chronic dyspepsia. In addition to discomfort in the epigastrum and right hypochondrium there may be pain referred to the back or the scapular region on either side. In some cases there may be only a sore feeling, in the epigastrum or flatulent distention which is reheved by the eructation of gas.

The attacks occur after the ingestion of food The distress is greater after a heavy meal or detary indiscretions. There are no periods of relief as in gastric ulcer, and the distress is not relieved by the recumbent position as is that caused by gastroptosis.

Of the physical signs the most valuable are Murphy's sign and Mayo Robson's point. The Graham Cole \(^1\) ray test is of value in many cases but not in all. Bile is to be found in the urine only for a few days, hence an icteroid sclera is an early sign. The van den Bergh test for bihrubin in the blood is of value, but this also is positive for only a short time. In 75 per cent of the cases there is a hypergly camina due to concurrent pancreatic damage.

Early operation prevents obstruction of the common duct, septic cholangeitis, and pancreatitis. The author's rules for treatment are the following

r Remove all other foci of infection
2 In infections limited to the gall bladder

cholecystectomy without drainage should be done
3 When the infection is more diffuse, cholecys
tectomy with drainage of the common duct should
be done

4 If the symptoms point to gall bladder disease cholecystectomy should be done even if the gall bladder appears normal LARL G. GARSIDE M.D.

McMaster P D, and Elman R Studies on Uroblin Physiology and Pathology VI The Relation of Bilary Infections to the Genesis and Excretion of Urobilin J Exper Ved, 1926 klu, 753

To determine whether during biliary obstruction or upon injury to the liver the urobin formed in an infected biliary tract can be absorbed therefrom and lead to the appearance of the pigment in the unio, the authors carried out experiments in the unio, the authors carried out experiments in which they infected intubated and previously sterile duct systems with urobini producing bactera. The findings showed that after infection of the biliary tract urobinium as produced following biliary obstruction and following liver damage also that marked urobinium fails to appear when chronic infection has caused pathological changes in the gall bidder

McMaster and Elman designate such uroblin nura an 'cholangitic,' to distinguish it from the uroblinuma having its origin in pigment absorbed from the intestine. The fact that cholangitic uroblinuma is more pronounced in animals with a normal gall bladder leads the authors to conclude that there is an active absorption of uroblin from the normal gall bladder and the bile ducts and that there is no evidence to indicate that uroblin is formed by the action of the liver parenchyma.

HERMAN H HUBER M D

Collinson G A and Fowweather F S An Explanation of the Two Forms of Bilirubin Demonstrated by the van den Bergh Reaction But M J 1926 1 1081

Van den Bergh assumed that there are two forms of thindhin the one reacting directly with the sul phanilic acid reagent and present typically in cases of obstructive jaundice, and the other reacting to an appreciable extent only in the presence of alcohol and after precipitation of protein and present

typically in cases of hamolytic jaundice

The authors attempted to ascertain the chemical mechanism underlying these different reactions since such knowledge would help in explaining the production of paindice. The modern theory of paindice assumes that bilirubin of the himolytic form is produced by the cells of the reticulo endo thelial system in the liver and in its passage through the liver cells to the hile capillaries becomes converted to the obstructive form in which it is found in the bile.

The experimental evidence produced by the authors is very complet and cannot be described briefly. They conclude from it that the chemical nature of hibrubin lends support to the modern theory of jaundice. Cyril Glassfel M D

Lecene P and Moulonguet P Remarks on the Types of Mild Cholecystitis Termed Straw berry Gall Bladder (Remarques sur les formes de cholecystite lègère appellers vesicule fraise') Presse mid Par 1926 TXIV 49

Grossly the so called strawberry gall bladder" is characterized by the presence of small yellow bodies about the size of a pinhead which project from the mucosa into the lumen. Microscopically these bodies are submucous accumulations of polyhedral cells laden with lipoid material. The lipoid material has been shown to form needle like crystals and to have a melting point considerably, lower than that of cholesterol. Its color reactions and some of its optical properties indicate that it is a cholesterol complex probably a cholesterol est. Schaefer has shown that the lipoid content of a strawberry gall bladder is twice that of the normal organ.

The significance of these small cell masses has been disputed. It has been suggested that they may serve as nuclei for the formation of stones, but the stages of such a transition have never been clearly demonstrated. Policard attributed them to excessive

absorption of lipoids by the gall bladder epithehum probably as the result of stasis. Because of their frequent association with a frank infectious chole cytitis with or without stones the authors believe they develop as a result of infection. The lipoid filled cells are regarded as leucocytes which have under gone fatty degenerative changes Similar cells are regarded as leucocytes which have under gone fatty degenerative. Changes Similar cells are vell in beneath the mucoss. Fatty deposits may also be seen at times within the epithelial cells themselves.

Further evidence in support of the infectious Further evidence in support of the infectious rough of the support of the infection of the support of the supp

If a strawberry gall bladder is associated with the presence of stones cholecystectomy is indicated When it is uncomplicated the nuthors perform a cholecystostomy as they believe the condition is essentially a wide spread bilary infection requiring chiefly adequate drainage

LAWRENCE JACQUES M D

## Judd E S Cholecystitis with Associated Problems Illinois M J 1926 xlix 460

Disease of the gall bladder is not only recognized more often than formerly but is more common The cause of cholecystitis is being investigated The author reports a series of 100 cases in which the gall bladder was studied bacteriologically immediately after its excision. The findings were positive in only twenty nine although contamination was inevitable at times. Five of twenty two specimens of strawberry gall bladder gave positive cultures The bile was bacteriologically positive in seven of the 100 cases Gall stones which were found in so per cent yielded positive cultures in five. The bacillus typhosus and bacillus paratyphosus were not encountered although there was a bistory of typhoid fever in twenty one cases. In the one case of cholesterosis with thick dark bile both the gall bladder and the bile were sterile

When the gall bladder appears normal at opera ton its not always justifiable to conclude that the diagnosis was wrong. Removal of the organ may dissipate the symptoms and prove that unrecog nizable disease is present. At times therefore the diagnosis must be made on the clinical manifestations alone dangerous as this practice is in principle. According to the authors experience removal of the gall bladder when the complaints are typical will bring relief even when no disease can be recognized in the viscus. Judd believes that the seat of the disease in such cases may be in the

pancreas or liver and that cholecystectomy pro duces a cure indirectly. If the symptoms are of the chronic dispeptic type the chance of cure by cholecystotomy is not great

Judd emphasizes the importance of good exposure and explains his method of obtaining it. He discusses ligation drainage and the care necessitated by the presence of jaundice

#### Miller J L The Medical Aspects of Gall Bladder Disease Illinois M J 1926 xhx 451 Herbst W P Some Phases of Biliary Surgery Illinois W J 1926 xhx 455

MILLER emphasizes the fact that the treatment of gall bladder disease is surgical but the diagnosis must usually be made by the internist in co-operation with the laboratory worker and the roentgenologist. The diagnosis is not easy. Careful history taking and questioning are necessary. It must be home in mind that a syndrome resembling that of gall hladder disease may be caused by conditions such as syphilms of the liver spastic colitis intercostal neuritis due to osteo arthritis of the spine, appendictist. Dietl's crisis and central pneumonia

of the right lower lobe

If lues is excluded periodical attacks of charac teristic pain followed by jaundice and localized tenderness warrant the conclusion that surgery is indicated In atypical cases the van den Bergh test is of great aid. Severe epigastric pain without fever but with a leucocytosis is suggestive of gall bladder disease When the pain passes through to the right scapula or laterally around the right tho rax gall bladder involvement is suggested. The occurrence of pain after jolting suggests biliary or renal disease. It is the milder type of gall bladder disease without severe pain that is the most difficult to diagnose. In this type gastric symptoms predom mate and skill is necessary to distinguish them from digestive pains. It is well to hear in mind that in these cases periodicity of discomfort and failure to respond to ulcer management are rather common characteristics The gastric analysis rarely throws more light on the nature of the con The roentgenologist's findings should be dition carefully weighed but the diagnosis should not be based upon his report alone. The history of the disease is more important

In Miller s opinion the only treatment is surgical Medical therapy is of no avail

HERIST discusses certain phases of bihary disease and surgery. After reviewing briefly the physiology of the liver and gall bladder and the formation of biltrubin, he proceeds to classify jaunidee into three types—the harmoly fit the obstructive and a type caused by mability of the hier parench, ma to secrete and exercte because of acute infectious and pathological impairment of the hier cells.

He then reviews the clinical tests in detail the levilose the van den Bergh, the Fouchet the Rosenthal the Muhlengracht the glycuronic acd the blood urea and the blood cholesterol tests and cholecystography Those of the most value are the Rosenthal, the van den Bergh and the hlood urea

tests and cholecystography

The van den Bergh test serves to differentiate between hamolytic jaundice and the two other types When the daily amount of serum biliruhin is noted, an increase in the amount of pigment indicates an increasing surgical risk. When the findings of the van den Bergh test remain above normal in cases of drainage of the common duct the drainage should not be discontinued

The Rosenthal test is of most importance in sus-

pected liver disease without jaundice

Cholecystography is 100 per cent accurate only in cholelithiasis. It should be used primarily in cases in which a reasonably satisfactory chinical

diagnosis is impossible

In cases of gall stones, surgery is almost always indicated unless the patient is a poor risk cholecystitis without stones, it is indicated if there is no response to medical treatment within a year The hazards of a longer delay are the possible development of pancreatitis hepatitis, biliary cirrho sis, an acute surgical condition, an ulcer, or myo carditis Jaundice always increases the surgical risk hut as the result of the use of the van den Bergh test, calcium therapy transfusions and the administration of glucose, it has lost many of its dangers

In currhusis of the liver with ascites, the intra venous or intramuscular injection of doses of r or 2 c cm of a 10 per cent solution of novasurol at intervals of three or four days and the administra tinn of ammonium chloride in capsules to the amount of 10 gm daily have been of great benefit HERMAN H HUBER M D

Muller G P Certain Experiences with Gall Bladder Surgery Med J & Rec 1926 CXXIII

Gall bladder disease is most common in fat women who have horne children Of the author's 128 patients with disease of the gall bladder, 82 5 per cent were women The average age at which the patients came to operation was 43 years In most cases nearly twenty years elapse between the onset of the condition and the operation During this time the patient suffers from so-called nervous indigestion, flatulent dyspepsia and intestinal intoxication

In the diagnosis of pericholecystic adhesions, the A ray helps materially. High fixation of the duo denum, fixation of the hepatic flexure, and displace ment of the pylorus to the right are significant Moore has reported a correct diagnosis of gall bladder disease by cholecystography in 92 5 per cent of cases Gastric analyses have not given much in formation in gall hladder disease. Liver function tests are of value as indicating the working of the extra hepatic passages

In the author's cases of acute suppurative chole cystitis (nineteen), the symptoms were those of acute inflammation, such as tenderness, rigidity, fever and leucocytosis. The gall hladder was usually found swollen and intensely congested

The author discusses the advisability of imme diate operation in these cases and whether it is better surgery to do a cholecystostomy under local anæsthesia than a more radical operation under inhalation anasthesia. In the cases of fat patients, local anæsthesia has been found difficult when a cholery stectomy is to be performed, and the anasthetic gases without some ether are unsatis factory When only cholecysto tomy is done a second operation may he necessary, but may he deferred until the patient is less critically ill

In the group of cases of acute cholecystitis with common duct obstruction, the mortality was 40 per cent Cholecystectomy was performed in every

instance

Of the author's seventy-eight cases of chronic cholecustitis twenty four were cases of simple chol ecystitis and fifty four were cases of calculous chol ecystitis Cholecystectomy was performed seventy three times and cholecystostomy five times without a death In cases of non calculous disease chol ecustectomy is indicated. In cases with invulve ment of the pancreas internal drainage (chole cystogastrostomy) is better than external drainage, and if the gall bladder is extensively diseased it is probable that the cystic duct is occluded

In the author's cases of chronic cholecystitis with common duct occlusion the mortality was 10 2 per cent. In this type of case, pre-operative prep aration is must important. Water glucose calcium chloride and digitalis should he given

anæsthesia is contra indicated The end results in the cases reviewed were as

Condition	Traced	W-II	Bene-	Not bene
Acute cholecystaus	Traceu	** 511	nted	fited
Cholecystectomy	13	12	1	0
Cholecystostomy	4	3	ī	
Acute cholecystatis and duct	•	•	_	_
stone		.3	0	0
Chronic cholecystitis	•	•		
Without stone	2,3	16	6	r
With stone	45	38	5	2
Common duct stone	45 18	13	3	2

HOWARD A MCKNIGHT M D

Gibson C L Aids to Cholecystectomy Sure 1026 luxuu 618

Gibson enumerates the following aids to chole **cystectomy** 

- I Good exposure hy an incision that will allow direct drainage if it is necessary and is least apt to favor herma
- 2 Shelling out of the gall hladder from its peri toneal coat so that at no point will the surface or substance of the liver be involved

Sealing of the cystic duct hy peritoneal blockade

4 Closure of the wound without drainage in suitable cases to eliminate postoperative adhesions or render them minimal

5 Careful hæmostasis particularly with repard to the cystic artery

The incision the method of effecting harmostasis the removal of the gall bladder from above or below and other steps in the operation are discussed in more detail. In the author's case, in which closure was effected without drainage convales/escnee was rapid and comfortable and the operation has never been followed by hernia.

EMIL C ROBITSHEE M D

St John F B The Late Result of a Billiary Fistula with implantation of the Fistulous Tract into the Stomach Ann Surg 1026 lyggin 855

The author reports a case in which a biliary fastula followed cholecysteromy for an acute exacerbation of chrome cholecystitis. All of the hile drained through the fistula for eight yax days. At a second operation the distal portion of the sinus tract was carefully dissected from the surrounding issues and the tubular structure thus obtained implained into the prepyloric portion of the stomich. Today thenty-one months after the operation the patient is free from symptoms and jaundice and is able to est an unrestricted diet. Eur. G Gassew V D

Hale K A Study of the Accessory Pancreas 1nn Surg 1926 lxxxiii 774

The author reviews the literature on the accessory pancreas and reports a case

An accessory pancicas is most frequently located in the wall of the stomach duodenum or jejunum where it is probably developed by the migration of a primordial pancreatic cell into the dorsal meso gastrium

An aherrant pancreas is subject to many patho logical changes. Chief of these are chronic interstitual inflammation and acute pancreaturs.

In Hale's case pyloric stenosis had been caused The patient a child age 6 weeks died following a Rammstedt operation. Sections showed an accessory pancies in the thickened pyloric wall. There was no evidence of ducts from the aberrant panercas. Hale concludes that the hypertrophy found was due to irritation of the musculature by the pancification secretion. Easi, G. Gusspex M.D.

Courboulès Ruptures of the Pancreas in Abdom mai Injuries (A propos des ruptures du pancréas dan les traumatismes de l'abdomen) Lyon chir 1926 Xini 01

Contusions or ruptures of the pancreas cuber alone or associated with other visceral leanons are not so unusual as was formerly believed judging from the number of cases reported in recent years. If the pancreas alone is injured there may be no special symptoms at the time of the accedent and a diagnosis cannot be made until later when a post traumatic pseudocyst of the pancreas develops

In a case of football impury seen by the author there was at first only a slight contracture of the abdomen wheth was remporary and did not justify exploratory laparotomy. After several weeks rapid emacation and the development of a tumor led to operation and the discovery of a post traumatic cust of the pancease. After the operation there was a pancreatic fistula.

The author reports also a case of traumatic herma of the stomach with internal hamorrhage rupture of the pancreas and pancreatic fistula due to a fall In such cases a pseudocyst does not develop but a pancreatic fistula is formed at once The liquid which flows from the injuried gland does not become encysted in the deep tissues as it is exacuated through the operative wound especially if drainage or a tampon for deep hamorrhage is necessary.

But whether the lesson is solitary or associated whether the original accident leads to immediate or to late operation the trupture of the pancreas will sooner or later be followed by the formation of a pancreatic fistula. In cases of pseudocyst in which marsupualization is the only possible treatment listula will be secondary whereas in cases such as the author's second one it will be primary in either case the fistula render spossible a laboratory study of the function of the pancreas the composition of the pancreast pure and the action of the punce when it is not activated by hile intestinal junce or bacteria. ADPERS 6 Morsa's VID

Capecchl E The Importance of the Spleen In Resistance to Infection as Indicated by a Gas of Severe Puerperal Septis In a Woman Was Ind Recently Been Splenetcomized Guide Ind Recently Been Splenetcomized Guide desunts da un caso di sept puerperale grave in donna di recente splenetcomizata). Clin attel 1036 32 viul 170

A great deal of experimental work has been done to determine whether the spleen exercises a protective function against infection but the results have been rather contradictory. The author reports a clinical case which seems to have a decided bearing on the subject.

subject The patient a 28 year-old woman with no family or personal history of any importance was suddenly taken with severe symptoms of internal ha morrhage Operation was performed for ruptured extra uterine pregnancy but a normal pregnancy in the third or fourth month was found and the tubes were nor mal The hæmorrhage had its origin in a rupture of the spleen The spleen was extrepated As there was no history of trauma it is probable that the spleen was undergoing regression from a lymphatic condition and therefore was ruptured easily by some slight exertion Five and a half months after the operation labor pains began but there was marked uterine mertia and it was necessary to deliver the child with forceps On the third day the lochia became feeted and the patient suffered from a high fever, chills, intense headache diarrhœa and

vomiting The fever remained bigh and the uterus large and painful for twenty days. Thereafter the fever declined gradually. The patient was discharged well on the forty fourth day. A blood culture on the sixteenth day showed a pure culture of non hemolytic, Gram positive streptococci in short chains. Two young dogs were injected intravenously with 2 c cm of a live culture of the strep tococci and two other dogs were injected after baying heen splenectomized. All four survived

The author concludes from this case and the results of the injections that the spleen is not essential to the defense against infection. Twenty days after the patient had completely recovered from the pureperal infection she had fever and pain in the left iliac fossa for fifteen days and a bard painful swelling of the left adnexs was found. A cure was obtained by medical treatment in about a month in spite of the absence of the spleen.

AUDREY G MORGAN M D

#### MISCELLANEOUS

De Martel, T The Contra Indications to Surgers in Acute Abdominal Affections (Les contre indications chirurgicales dans les affections abdominales augus) Bill et mem Soc nat de chir 1936 in 237

Operation should not be performed in the acute stage of abdomnal diseases. It is difficult to tell however, just when the acute inflammation is over. Some surgeons follow the rule of operating after the temperature has remained normal for filtern days but this is not always correct. De Martel has found that a normal differential leuco cyte count is the most reliable guide. In a normal person the proportion of polynuclears is surprisingly constant. Even a slight poly nucleosis means that an inflammation is still in the acute stage.

In several cases in which De Martel operated when the temperature had been normal for several weeks but a marked poly nucleosis persisted the results were very serious whereas when the differ ential leucocyte count was normal at the time of operation the results were always good even when only a short time had elapsed since the decline of the fever. In cases with an abnormal differential count in which he opened the abnormal differential count in which he opened the abnormal without continuing the operation (appendectomy) and delayed its completion until the count became normal. At the second laparotomy he found the lessons healed.

# Ryle J A Visceral Pain and Referred Pain Lancet 19 6 ccx 895

There have been two main theones with regard to visceral pain. According to the first which is based on the work of Lennander and has Mackenzie is its most victorius protagonist pain is not felt in the viscera but is referred to the somatic tissues supplied by the segment of the cord which supplies.

the viscera involved According to the second theory, which is accepted by Ross and Hurst and perhaps the majority of physicians, visceral disease may be accompanied by referred somatic pain, but the viscera themselves are capable of feeling pain when they are subjected to certain stimuli

Ryle endeavors to support the following bypotheses

r That there is a true visceral pain felt by the

2 That visceral pain is due to an abnormal in crease in the tension of the muscular element of the wall of the viscus, this increased tension re sulting from contraction or the failure of the muscle fiber to relax adequately in the presence of increased intravisceral pressure

3 That visceral pain occurring alone or dissociable from attendant somatic pains may be accurately

localized by the patient

4 That though referred somatic pain and tender ness, e g, viscerosensory reflexes and the associated visceromotor reflexes, may accompany a severe visceral crisis of mechanical origin, they more frequently express an inflammatory lesion of the viscus

5 That, when persistent they invariably express organic disease of the viscus of an inflammatory

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Except for the sensations of precordial fullness and retrosternal oppression experienced during violent effort or emotion the heart and aorta may be said to be insensitive under physiological conditions. In the case of the stomach we recognize the elements of appetite and hunger sensations, and the sensations of fullness or repletion These have been clearly traced to the tome and peristaltic activity of the stomach wall The work of Carlson and Hurst seems to indicate that they depend on the state of tension in the gastric muscle fiber. Of the appendix and gall bladder we are quite unaware in health. Of the intestine we are aware whenever there is local dis tention with flatus. The rectum clearly appreciates states of fullness at times of urgency amounting to pain and most of us will agree that its sensations are deeply and not superficially situated sensation of the desire to micturate is felt in the urethra and also in the hladder when the latter is over distended. All of these physiological sensations are related to increasing pressure on the walls of the viscus and are relieved by evacuation Menstrual pains are felt locally but are frequently accompa med by a more superficial sacral pain. With regard to these it is worthy of note that during menstrua tion a state of congestion akin to the effects of inflammation is present in addition to increased muscle tension No equivalent congestion is present during the normal functional activity of other hollow vicera

Observations support the contention that if the hollow vicera are sensitive, it is not their serous or mucous coats but their muscular coats which appreciate sensations. Those who contend that the

viscera are insen itive seem to have paid too hittle regard to the fact that special organ respond only to special stimuli. Thus the eye appreciates light and not sound the skin appreciates fouch tempera ture and traumatic pains all of which are physic olgically es entail for it to appreciate. The skeletal muscles appreciate position and tension the strength of opposing forces and in states of extreme tension pain but they are not sensitive to entime pricking appreciate factile or thermal stimule but its vitally necessary for them to appreciate states of fullness or emultiness.

By analogy it seems reasonable to insist that the plain muscle of the hollow viscera is endowed with the same sensibility positive and negative as the skeletal muscles in other words that the visceral sense is mu cle sense. The sensations of fullness or emptiness are therefore parallel with the sensations of posture and tension in a limb Pain (whether in skeletal or plain muscle) results when tension is greatly increased. The one common factor present in all cases of visceral pain is an increase in intravisceral pressure and muscular tension. The rehev ing factor whether it he the passage of a gall stone in biliary colic the ingestion of food in hunger pain or the peripheral vasodilatation following the admin istration of amyl nitrite in angina pectoris is in variably a factor which reduces intravisceral pressure

Ordinary stomach ache and intestinal colic seem to

be felt internally Renal and bilinry colic seem to

he deep to the hody wall In describing anginal pain the patient places his clenched hand to the sternum as though to indicate a median or aortic origin for his pain and perhaps incidentally to suggest its griping character indicates cardiac pain by applying the flat of the hand to the ubmammary region The pain of gastric ulcer 1 indicated with the tips of two or three fingers applied to the mid epigastric point or occasionally just to the left of this point the pain of duodenal ulcer hy a similar demonstration fre quently just to the right of the midline. In renal colic the hand grasps the loin usually with the fingers over the hack and the thumh in front as though to suggest that the pain i rather more po terior than anterior and deiply situated in the region of the Lidney The localization of pain in disease of the gall bladder and appendix (when there is no confusion due to associated inflammation or gastric and intestinal disturbance) is remarkably accurate The position of a calculus impacted in the ureter may also he accurately shown when distraction by concurrent renal cohe or other symptoms is not too influential Intestinal pains are less ea ily localized hecause intestinal colic is not confined to one spot as is the case with bihary or renal cohe Pains in the small intestine are usually felt around the navel and colonic pains hetween the navel and the symphysis pubis. However when obstruction occurs at a more or less fixed point such as the

hepatic splenic or sigmoid flexure the localization of intestinal pain is commonly precise

The reflected phenomena of visceral disease are best demonstrated in very severe visceral pain or inflammatory disease I xamples of the former are the arm pain in angina the subscapular pain of cholelithiasis and the testicular pain in ureteral Examples of the latter are the cutaneous hyperalgesia and muscular guarding found in appendicitis or in relation to a chronic gastric ulcer These reflected phenomena rarely accompany vis ceral disease of a functional kind they are generally associated with local organic changes In the majority of fatal cases of angina pectoris there is found some disease of the first part of the aorta or coronary vessels and we know that although the sensation of retrosternal oppression can he reproduced in health hy vigorous exercise upon a frosty morning the arm pain is not so reproduced and since the vessels are capable of relaxation local distress is never agonizing. It is upon observations of this kind that we may have the conclusion that visceral pain expresses a perturbation of visceral function (which may or may not he due to local organic disease) while the somatic phenomena generally express a structural lesion of the wall of the vi cus

Mackenzie has come to the conclusion that the only known stimulus that produces pain in tissues supplied only the autonomic nerves is contraction of muscle and increased tension

Cardiac pain is felt in the submammary zone and is sometimes accompanied by referred tenderness in the precordial area. The arguments weigh heavily in favor of an aortic or coronary or at any rate an arterial origin for the anginal pain. In support of this hypothesis are (1) the sternal situation of the pain over the aorta or the base of the heart and not in the precordial area (2) its oc currence as an early symptom of syphilitic aortitis (3) its association with aortic but not with other valvular forms of disease and its association with thoracic aneurism (4) its absence in the majority of cases of myocardial disease and heart failure, (5) its propagation by actions which cause a rise in intra arterral pressure and its relief by vasodilatation (6) its not infrequent association with hyperpiesia before the development of cardiac failure (7) its pontaneous relief when the heart muscle fails so that an adequate pressure for the production of the pain is no longer maintained (8) its segmental reference which as Wenckebach has argued on the basis of Head's work does not correspond accurately to the segments supplying the heart and (o) its close resemblance to other forms of arterial pain

It seems reasonable to assume that angina pectoris is due to aniccress in tension in the wall of the aorta or coronary vessels or both depending not upon spasm hut upon a failure of relaxation in the face of the increasing pressures and demands which accompany increased cardiac work. Recent observations have shown that stutus ragnosisy for sus

tained anginal pain) is due generally and perhaps always to thrombosis or embolism of the coronary arteries MORRIS H KAHN, MD

Fifield, L R, and Love, R J McN Subphrenic Abscess Brit J Surg, 1926 xiii 683

This study was hased on seventy eight consecutive cases of subphrenic abscess. In discussing the anatomy, the authors describe the six suhphrenic spaces where abscess is likely to occur the right and left extraperitoneal, and the right and left anterior and posterior intraperitoneal spaces. Abscesses are formed most commonly in the right posterior intra peritoneal (subhepatic) space

The usual etiological factors are appendicitis, the perforation of a gastric or duodenal ulcer, bepatic suppuration, and suppuration to the hihary pas sages The infection occurs through wounds, by the gravitation of exudate from peritonitis, by the hæmatogenous route, hy direct extensions and by lymphatic spread The most common infective

organism is the hacillus coli communis

The diagnosis is based upon the findings of physical examination of the ahdomen and chest, roentgen ray examination, needle exploration, and the blood cell count. In the differential diagnosis. pylephlebitis, empyema, liver abscess, perinephric infection, aortic aneurism, paocreatic cysts, and

recal tumors must be considered

The prophylaxis consists in the adoption of Fowler's position (especially in appendicitis with infection) and the establishment of efficient drainage in cases with a primary infective focus The treatment consists in incision and posterior drainage. In order to prevent pleural infection and obtain dependent drainage, resection of a rih as low as possible should he done Most commonly the tenth rih is resected

HERMAN H HUBER, M D

Herrick, F C Pyelography in the Diagnosis of Tumors of the Flank Ann Surg 1926, lyxxin

The author discusses only flank masses of un usual origin or course The differentiation of intra

peritoneal from retroperitoneal masses, of extra renal (retroperitoneal) from intrarenal masses, and of intrarenal masses by pyelography was hased on the following factors

r The position of the kidney the normal heing with the pelvis opposite the first or second inter vertehral spaces Variations are explained by hyper mobility due to one of the known causes, displace ment hy a tumor, or traction hy an inflammatory process

2 Disturbance of the normal longitudinal recal axis It is accepted that this axis extends upward and backward at an angle of 15 degrees to the ver tıcal

Disturbance of the normal anteroposterior 3 axis or rotation of the kidney on its vessels as an

4 Distortion of one or more calvees This is caused most commonly by pressure on the kidney from an extrarenal mass The entire pelvis and all of the calyces are present, but are elongated and distorted

5 Absence of a part or all of one or more calvees This is brought about most commonly by an intra renal mass, an abscess or a tumor, hy which a calyx is destroyed or obliterated so that the solution does

not enter it

6 Fragmeotation of the pelvis or calyces which constitutes a typical picture of tumor close to the

true renal pelvis

The differentiation between an intrarenal and extrarenal tumor may be facilitated by placing a coin over the paloated mass before making the pyelogram It is aided also by variations in the renal axis and a study of course of the ureter and its relation to the mass

A tumor outside of the kidney is more likely to change the renal axis and distort the renal pelvis or calyces than an intrarenal tumor whereas a tumor within the kidney is more likely to obliterate or cause fragmentation of the calvees than an extrarenal tumor

Twelve cases are reported in detail

EMIL C ROBITSHER M D

# GYNECOLOGY

#### UTERUS

Bullard E A A Study of the End Results of Operation for Uterine Prolapse at the Woman s Hospital 1915 1925 im J Obst & Gynec 1926 31 623

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Of the 36x cases of uterine prolapse reviewed by the author about 95 per cent were cured by vaginal plastic surgery

The vaginal plastic work combined with higament

shortening from above is satisfactory perhaps in cases of slight prolapse but undoubtedly the careful fascial reconstruction by way of the vagina was

responsible for the successful results

The majority of gynecologists of today have long ceased to attempt to cure descent of the uterus by any form of suspension or fixation by the abdominal route. The sine que non of the operative treatment of prolapse is careful reconstruction of the various planes of the pelvie fascan that have become attenuated overstretched or torn.

In none of the cases reviewed by Bullard was the Watkins operation followed by enterocele but blid der symptoms occurred in a considerable number of

them

The Mayo operation was extremely satisfactory except that it was followed occasionally by an enterocele

The vaginal hysterectomy by Bissell's technique was most satisfactory but unless this operation is perfectly done and perhaps even then it may be

followed occasionally by enterocele

In the discussion of this report Studdings and that ever type of operation fails in a certain per centage of times. An operation fails usually because it is not adapted to the requirements of the particular case in which it is performed. This means that the erise was not properly studied with regard to the causative factors or the condition to be corrected.

The Watkins operation has a distinct indication in a certain type of case—a case in which baste is possibly indicated such as that of an elderly woman with prolapse—but for a successful result there must be very little prolapse of the posterior segment the sacro uterni. Ingaments must still be holding. When an enterocele follows the Watkins procedure the operation was poorly performed.

WARD stated that Bullard's report emphasizes the importance of an efficient follow up system and

full records

HALSTED said that the third most common symp tom in cases of prolapse is incontinence of urine and that at operation on these cases special effort should be made to cure the incontinence

C L CORNELL M D

As hner B Conservative and Operative Treat ment of Uterine Hamorrhage (Konservative und operative Therapie der Gebiermutterblutun gen) Bun med Wehnschr 1926 (twi 188

The author states that like roentgen or radium castration the extirpation or supravaginal amputation of the uterus with or without conservation of the ovariss in cases of himmorphage of fibroid or ovarian origin may bave very severe after-effects. These sequelve which are manifestations of an automovization or retention toucous are caused by the artificially produced menopause since besides the internal secretion of the ovaries the exercitor function of the uterus is of considerable importance for the general well being of the female

They include obesity plethora metabolic dis turbances a tendency toward acute and chronic inflammations cardiac and vascular phenom na nervous and mental disturbances and diseases of the skeletrl and muscle systems the special sense organs the skin the endocrine glands and the via

eera

Aschaer believes that the indications for the treatment of harmorrhages should be revised. For harmorrhages due to my omata surgical intervention harmorrhages due to my omata surgical intervention harmorrhages due to my omata surgical intervention to my office to make the most time of the most time of the preservation of normal mension one omes up for consideration. In hermorrhages of ovarian origin the cause is often a chrome higher time of the pelve origins due to atomy of the stomash ehrome constipation or a sedenatry life in some cases bowever these harmorrhages may result from general plethora cardiac decompensation or disturbances of metabolism and internal secretion or may be eaused by toxins particularly metabolism state products.

By the proper use of venesection by drotherapy catharsis and variou medicaments the author has been able to avoid radical operation or roentgen castration in cases of harmorrhages of pub rty metropythan harmorrhages and the menoause

(C) TRHITISH (C)

Ferracem D The Experimental Production of Fundametriomata (Sulla produzione sperimentale di endometriomi) Lie ital di ginec 19 6 iv 35

Recently there have been numerous discussions on the subject of certain cystic structures of the female gential tract which contain blood or blood pigment and are lined with an epithelium presenting the same histological picture as that of the endometrium

At first these new growths were thought to be due to embryone inclusions or metaplasia of epithe lum but Sampson came to the conclusion that they are caused by the autotransplantation of epithelial cells or islands of mucous membrane through the tube into the peritoneal cavity where they become implanted and buried in the tissues near the mouth of the tube or on the ovary, undergo cystic degenera tion, and participate in menstruation This hypoth esis would explain the chocolate colored or tarry contents of the cysts Sampson believes also that the cysts may burst during a menstrual period and pour their contents, consisting of blood and ex foliated epithelium, into the peritoneal cavity, giving rise to new disseminations in the pouch of Douglas The epithelial lining of these cysts reacts histologically to menstruation pregnancy, and the menopause in the same way as the mucous membrane of the uterus

With a view to determining whether Sampson's theory is correct the author performed experiments on dogs and rabbits. In a first series of experiments be made an incision in the body of the uterus, scraped the mucosa from the inner surface of the organ with the tip of a knife blade, divided it into minute fragments, and scattered them over the internal genital organs and the abdominal cavity In a second series he removed the embryos from pregnant dogs and scattered the fragments of the decidua in the pelvis and abdomen In a third series he resected a part of a horn of the uterus, cut it into fine bits with the scissors and scattered the bits on the pelvic organs and in the peritoneal

The first two series of experiments were negative, but in the third series cysts of various sizes were formed in a short time. In some cases the cysts were implanted on the abdominal organs and in others were scattered over the parietal peritoneum. Only one cyst was formed on an ovary, but in dogs and rabbits the ovaries are high up in the abdominal cavity beside the vertebral column and it would be difficult for the fragments to reach them if they were not placed there. The internal walls of these cysts presented an epithelium very similar to that of the uterine mucosa AUDREY ( MORGAN M D

Proust, R., Mallet L. and Collez R. Cancer of the Cervix Treated with Radium at a Distance (Cancer du col de l'utérus traite par la curie thérapie a distance a foyers localisés) Bull et men Soc nat de chir 1926 lu 84

The vaginal application of radium in the treat ment of cancer of the cervix gives excellent results but is insufficient against the spread of the disease by way of the broad ligaments. Several years ago the authors recommended the application of radium at the base of the broad ligaments by laparotomy but they have now abandoned this method in favor of radiotherapy at a distance

As surface applications of radium of sufficient penetration caused injury to the skin the attempt was made to increase the depth action by bringing the radium about 12 cm from the skin masses of 50 mgm of radium each were used and protected by lead sheets so that the skin area irradiated by each would not be affected by the two

others With this protection and by cross firing, the tissues at a depth of 10 cm received 60 per cent of the dose received by the skin at the portal of entrance

The authors report the case of a 60 year old woman who entered the hospital with an inoperable cancer of the cervix which had spread into the left broad ligament The patient had had hæmorrbages and had passed clots. At the time of her admission she had a foul smelling discharge but no pain. She had not lost weight and her general condition was good The diagnosis was confirmed by biopsy

Between the skin and the radium were placed a layer of wax 1 cm thick and a layer of gauze 1 cm The three 50 mgm sources of radium were placed 8 cm from the skin on August 14, 1925. and left on until September 15 There was no difficulty and no local reaction although the radium remained in place for twenty two of the twenty four hours of each day At examination on October 25 the cervix was still slightly fixed in the cul de sac but the infiltration in the broad ligament was gone and the body of the uterus was mobile. On the surface of the abdominal skin two of the radiated zones were very apparent. Around the periphery of the central and right ports of entrance there was some central desquamation and pigmentation The left port was much less apparent. The specu lum revealed slight ulceration of the lower cervical hp A vaginal application of radium was then made

When the patient was examined in January, 1926, she was found to be in good condition. The cul de sac was normal, the cervix small, and the fundus of the vagina slightly retracted. When the cervix was examined with the speculum it appeared to be completely cicatrized KELLOGG SPEEN M D

#### MISCELLANEOUS

Noyes I II Pelvic Inflammation in Women Boston
If & S J 19 6 exciv 1025
Champlin J Jr The Use of Milk Injections In
Pelvic Inflammation Boston II & S J 1926

Magill W H Thermotheraps in the Treatment of

Pelvic Inflammation Boston If & S J 1926 CACIA 1031

Noves makes the generalization that pelvic inflammation of varying types is the cause of much semi invalidism, a large percentage of the cases of sterility, and a great many of the destructive pelvic operations done on women during the child bearing period He reports on 4,400 women admitted to the Rhode Island Hospital Providence in the years 19 0 to 19-5 820 (18 6 per cent) of whom had some form of pelvic inflammation. Five hundred and seventy eight were operated upon and 300 (55 3 per cent) were rendered stemle

The mucous membrane of the vagina contains few if any glands and is not easily infected. The cervical canal is a striking contrast with its race mose glands from which pathogenic organisms are difficult to cradicate In most cases of persistent upwentle vagnutis an infected cervix is probably the chronic focus. Probably no portion of the body is so frequently diseased as the cervix of the parous woman during the child bearing period. Persistent chronic infection of the cervix is almost certain to result in infection of the posterior parametrum and this may cause backache, dysmenorthica or men orrhama.

In the genital tract the gonococcus travels upward by direct progre son along muous surfaces more readily than by the blood stream or lymphatics. In this respect it differs from the streptococcus. The endometrium seems more or less immune to direct attack by the gonococcus in the fallopian tubes however the gonococcus readily gains a footbold in the latter as well as the cervit the infection may be limited to the mucous lining hut eventually in most cases the involvement becomes extensive

with serious damage to the tube wall

with serous damage to the tune wait. The author stresses the clinical significance rather than the pathological status of the gonorrhoral in fection. He discusses the frequency of tubal involvement in cervical infection the probability of resolution of the tubal infection under medical management the incidence of prepriating after resolution and the incidence of postpartum infection in cases of gonorrhoral cervacities coincident with or occurring during pregnancy. Of thrity three patients with positive smears seventeen showed a positive urethra and cervic eleven a positive urethra only and five a positive cervix only. After observation ranging from one to twenty-one months thirteen [39 per cent) developed evidence of more extensive intrincelves inflammation.

Of another series of twelve pregnant patients all of whom acquired their infection at the time of or shortly after the establishment of pregnancy none developed any marked puerperal sepsis

The bacteria most frequently concerned in puer peral sepsis are the streptococcus staphylococcus and colon hacillus The infection spreads chiefly

by way of the lymphatics or blood stream

For the treatment of pelvic inflammation Champtin recommends the more general use of non specific protein therapy since animal experimental aton and practical medicane have shown the stimu lating effect of such therapy on the hody cells especially those weakened by infection. The most forceful efforts made to throw off infection are made by the affected cells themselves Under the stimulus of foreign proteins given subcuttaneously intra muscularly or intravenously the protophism develops phagocytic properties the toruns are neutralized by the fresh production of antibodies and ferments the local metabolism is intensified and the puis a blasorbed

The u e of milk in non specific protein therapy was originated by Schmidt of Iraque in 1916 In America it was maugurated by Gellhorn of St. Louis

As a rule ordinary whole milk is used It is prepared in various ways Centrifugalized fat free

milk causes less local irritation and less marked general and focal reactions. The methods and technique of the preparation of the milk vary with different men and clinies. Gellborn uses milk stenlized by boiling or by pasteurization at 80 degrees. C for one hour on six successive days. When ready for use to cem of milk is placed in a stenle test tube and holded for ten minutes in a water bath. Five cubic centimeters of milk are injected into be glateal muscles and the injections are repeated at intervals of from three to five day. The amount injected is gradually increased to role on by the third injection. The average number of injections is six.

The first injection is followed after from six to eight hours by a general reaction characterized by chils fever headache and general malaise

Cardiac decompensation diabetes, and alcoholism are contra indications to such therapy

The principal field of protein therapy in gyne cology is in the treatment of pelvic infections particularly those of gonorrheal origin Such infections of the bladder uterus and tubes respond

to it well, but those of the cervix and ovary do not Macitte states that until the advent of dinthermy, which is the local production of heat by the peace tration of the tissues with an electrical current of high frequency, the treatment of pelvic infection with heat was limited practically to the vaginal douche. Titus uses an anterior electrode over the addomen and a posterior electrode over the searn region. The Corbus Chapman method with vaginal ment is an improved procedure for the localization and concentration of heat in the pelvic tissues. By the use of this electrical agency heat can be generated to tolerance usually between rog and rio degrees. F for medical purposes, or still higher for degrees F for medical purposes, or still higher for

tis ue destruction in surgical diathermy.
Corbus and O Connor state that gonococi are killed at a temperature between ros and ros degrees.
F in forty minutes. If the organisms are not killed it is probable that at least their virulence is

attenuated

According to Magill the local application of heat is contra indicated in acute pelvic inflammation particularly in postpartum and postabortion infections

Charles F DuBol. M D

Pribram E The Cultural Method of Testing the Virulence of Bacteria from the Cerva: and Vagina and Its Significance with Regard to Postoperative Morbidity and Mortality (Zur kulturellen Virulenspruefung von Cerva: und Scheidenkeimen und ihre Bedeutung füer die post operative Morbiditaet und Morfalitaet) Zentralik f Curick 2926 1 137

As the result of the findings of virulence tests in 105 gynecological and obstetrical cases the author regards as incorrect the opinion held it Buijm is clinic that a positive reaction to Philipps virulence test is in itself sufficient to contri indicate radical

operation for an otherwise operable carcinoma and casarean section. He concludes, moreover, that it is impossible to predict the postoperative course from an increase in the bacteria in the blood within the first three or four hours after operation.

He was unable to corroborate the statement of Philipp that hemolytic streptoicocci which are very virulent in the patient's blood will increase in the blood of another person in the same manner as in the patient's blood. In Pribram s opinion, it is impossible positively to predict the chinical course of an infection from any laboratory test alone and the most that may be expected from laboratory tests are suggestions for treatment. Wozar (G)

Fuss E M The Virulence Test in Gynecology and Obstetrics (Die Virulenzprobe in der Gynackologie und Geburtshilfe) Zentralbl f Gynack, 1926 1

From the use of the virulence test of Ruge and Philipp in gif & gneeological and obstetrical cases the author concludes that the demonstration of the presence of virulent bacteria by this test is a warn ing, since such virulent bacteria if given the opportunity to multiply, will probably cause a severe infection. The demonstration of the presence of avirulent bacteria by this test usually indicates the absence of severe infection.

Occasionally, however, severe infections occur in association with apparently avrulent bacteria. In such cases the virulence test fails because the in fecting organisms are almost exclusively an erobes. Therefore when the advasability of operation is to be determined from the findings of the virulence test, control tests for the presence of anirobes, especially gas formers, should be made. Worry (G)

Møller W The Effect and Risks of Radium Treat ment in Bengn Gynecological Complaints Acta obst et gynec Scand, 10 5 19 2 2

It is thought that roentgen therapy arrests endo metrid bleeding by destroying the ovarian follicles and their derivatives. Radium is believed to have a similar action but to have also a direct effect on the uterine mucosa. In a study of the uteri and ovaries of thirty two women treated with radium (twenty five of whom had a beingin condition), the author found no evidence of any destructive change in the endometrium which might be ascribed to the radium. He therefore concludes that the direct action of radium upon the uterus is negligible. Its action on the ovaries appeared to consist in an initial destruction and a reduction or arrest of the growth of the follicles. In every case, bowever, a certain number of follicles remained unchanged. Misller ascribes to the latter the return of the menses after radium treatment.

In reducing the size of a fibroid which is the cause of bleeding, irradiation acts directly upon the tumor tissue and not through the ovaries. This conclusion is supported by the findings in cases reported by Meyer and by those in fifty irradiated myomata

examined by the author

Contra indications to the use of radium in cases of fibroids are the presence of infection and of sub mucous myomata. Of rog women studied by the author, fifteen showed signs of infection following radium treatment and four showed severe infective sequelae, the relation of which to the treatment was too obvious to be demed. The latter four required operation, and two of them died. Of seven patients with submucous myomata who were treated with radium, five developed signs of infection.

A causal relationship between irradiation and the subsequent development of cancer bas not been established, but the author has collected thirty cases from the literature and knows of six others in which cancer developed after radiotherapy. He therefore advises careful watching of cases in which irregular bleeding occurs following the amenorrhea

due to irradiation

Women who have been treated with radium should be strongly advised against becoming pregnant during the time immediately preceding the amen orther as abortion is frequent in such cases and the offspring resulting from the fertilization of an own from no irradiated growing follicle may be inferior

COODRICH C SCHAUPFLI'R M D

## OBSTETRICS

#### PREGNANCY AND ITS COMPLICATIONS

Groené O On Chorea Gravidarum and Its

Etiology Acta obst et evnec Scand 19 5 1v 203 Until he saw the two cases reported in this article the author did not share the opinion that chorea gravidarum is a formidable condition. The first case was that of a 22 year-old primigravida in the seventh month of pregnancy who at the age of 17 years had had an attack of chorea minor The second case was that of a multipara also 22 years of age who had never been affected with chorea In both cases the condition had a very acute onset and severe course with high fever and in both the pregnancy was interruped by vagnal exsarean section. In one case there was an erup tion somewhat resembling that of measles. The first patient died and the second recovered

Chorca gravidarum especially in its severe form is a rare disease. It is most common between the ages of 16 and 25 years. Its incidence is 4 3 per cent in the first three months of prognancy 28 per cent in the second three months and 10 per cent

in the third three months. It has a marked tend ency to recur in subsequent pregnancies

The author favors the theory that it is of an infectious nature. Its severity in pregnancy is due merely to the decrease in the patient's general resistance. Not infrequently there is a history of chorea minor The theory of infection is supported by the constant presence of a fever occasional septic eruptions and effusions into synovial cavities

The mortality ranges from 17 to 30 per cent while that of chorea minor ranges from 2 to 5 per cent. The prognosis is extremely unfavorable if from the beginning there has been a high temperature or a psychotic element. In most cases the onset of labor has a favorable effect. In scrious cases, labor should be induced However the beneficial effect of inter ference is due not to cure of the disease but merely to restoration of the normal resistance

COORDING C SCRAUTFLER M D

Forssner II Sundell C and kjellin G Relationship Between Pregnancy and Tuber culosis 1cta bit et gynec Scand 1925 14 210

The harmful influence of pregnancy on tubercu losis has not yet been definitely established. Cases in which pregnancy has been terminated cannot be cited as cyldence. It has been shown that flare ups occurring during pregnancy may be merely coincidental and that sudden unexplained flare ups independent of pregnancy may be benefited or arrested during and after pregnancy Only cases in which pregnancy has been allowed to exert its supposed harmful effect to term can be used as evidence

The authors review the cases of 350 women with a definite diagnosis of tuberculosis who became pregnant and were kept under observation for a period of two years after delivery. They studied also a control series of 250 women of the same social status (working classes) and age (between 17 and 45 years) who were under observation for two years and were not pregnant either during this time or in the preceding year

According to Turban's classification the cases may be divided into three groups viz (1) those in which the condition is benefited or remains station ary, (2) those in which it becomes aggravated and (3) those in which it proves fatal From the author s findings it appears at first glance that the nonpregnant women got along considerably better than the pregnant women but it is pointed out that when the former group were admitted to the hospital they had serious complaints referable to the lungs whereas many of those who were pregnant had no subjective symptoms and hence the latter group included a larger number of quiescent cas s

According to a corrected table which shows only the cases in which bacilli were demonstrated during the two year period of observation there was little or no difference in the progress of the two groups when the condition was mild (Purban's Type 1) but it is impossible to deny that pregnancy may evert a harmful influence on the advanced cases (Turban's Types 2 and 3) The findings in the early cases are of greater importance than those in the others because it is the mild cases in which the decision for or against intervention is most difficult In advanced cases intervention is almost never

advisable

The babies of the tuberculous mothers weighed about the same as those of non tuberculous women They were never born tuberculous Subsequent tuberculosis in such infants is acquired by contact after birth. When the infants are taken from their mothers at birth their chance of avoiding the di case is about doubled

As a result of their study the authors advise against artificial interruption of the pregnancy

COODRICH C SCHAUFFLER M D

McIlroy A L Pulmonary Tuberculosis Com-pucated by Pregnancy Proc Poy Soc Med Lond 1926 viv Sect Obst & Gyntec 61 McIlroy s statistics indicate that pregnancy is a

very serious complication of pulmonary tuberculosis I rimigravidæ arc particularly susceptible to pul monary changes A definite lung tuberculosis is manifested by a slight cough or general malaise but this is often overlooked by the physician being ascribed to the pregnancy. The idea that pregnancy improves the general condition of a tuber culous patient is fallacious, the ovum max act as a parasite draining the mother's vitality

There is considerable controversy regarding the end results of the induction of abortion. The advisability of this procedure depends upon the conditions in the particular case. Abortion should never he induced after the twentieth week of pregnancy. The best method is tent insertion.

When the child is carried to term and the mother's tuberculosis is slight and unaffected by nursing it is advisable to give the haby hreast feedings for three months at least. Babies born of tuberculous mothers are usually healthy and un affected by the mother's milk.

It is essential that the mother he given constantly the care usually given for tuberculosis and that the baby he isolated to prevent its infection from the

mother

Further pregnancies should be avoided until two years after all 51 mptoms have subsided Contra ceptives may be advised or temporary sterilization may be employed For the latter, the \ray is preferable to operative measures

MAGNUS P URNES M D

Hofbauer J The Defensive Mechanism of the Parametrium During Pregnancy and Labor Bull Johns Hopkins Hosp Balt, 1926 xxxxiii

The author states that during pregnancy a phagocy ite issue consisting of monocytes and clasmatocytes, makes its appearance in the base of the broad higament and is intensified under the stress of prolonged labor and particularly by the presence of infection. The development of this tissue from resting wandering cells and adventitial cells can be demonstrated.

The appearance of this phagocytic tissue in the parametrium must be regarded as a biological reaction against infection. If favors the development of local immunity in a region exposed to infection, and must be of service in doing away with dchris and bacteria.

The mode of its production is not yet clear but it may have important implications with regard to auto infection and low cervical section

The development of lymphoid tissue within the walls of lymphatics in the parametrium is probably an additional defensive mechanism

ROLAND S CRON M D

Browne F J The Etiology of Accidental Hæm orrhage and Placental Infarction An Experimental Investigation Brit M J 1926 1 683

Accidental bæmorrbage has been geoerally as cribed to toxemia of pregnancy but some obste tricians hold that the toxemia is due to the hæmorrhage

From a study of pregnant rabbits in which an acute nephritis was produced by injecting ovalates and certain bacteria, the author found that nephritis

is an important condition predisposing to hamor rhage. The most important hamorrhage producing hacellus coli

Placental infarction and accidental hamorrhage are the end results of a toxemia produced by acute nephritis

When only organisms or their toxins were injected no hæmorrhage occurred

An acute oxalate nephritis leads to marked urea retention but even when the urea concentration is at its highest the urine may be free from albumin Magnus P Urwis M D

Fitzgibbon G A Revised Conception of Ante partum Accidental Hæmorrhage Proc Ros Soc Med Lond 19 6 xix Sect Obst and Gynæc

This article reports a study of cases of antepartum hamorrhage seen during a period of six years at the

Rotunda Hospital, Dublin

From his findings, Fitzghloon concludes that he revealed type of harmorrhage the uterine muscle is healthy and therefore resists distention by hlood pouring into the uterine cavity while in the concealed type the muscle distends because it is diseased. He has found labor to he the common outcome of hoth types. The labor is usually rapid and the uterus acts perfectly both during and after delivery regardless of whether the harmorrhage is revealed or concealed.

While Fitzgibhon necepts the view that accidental hemorrhage is due to toximia, he discovered that although the other toximic diseases occur twice as frequently in primiparae as in multiparae at least 85 per cent of the accidental hemorrhages studied

occurred in multiparæ

A closs relation was noted between the vitality of the fetts and the degree of alluminum, but there was no relation between these and the type of the accidental bemorphage. In no case in which the uterus was tense or painful was a living infant born. On the other hand seventeen viable and six dead fettiess were delivered in twenty three cases in which the uterus was normal to palpation. Histo logical examination of the uteri showed separation of the muscle fibers, invasion of the interstitial tissue by blood, and intramuscular hiemorphages about the periphery of the small veins which was most pronounced in the outer layer of the uterus. There was no degeneration of the muscle fibers.

The author divides accidental hemorrhages into two types (1) those due to a simple and truly accidental ablation of part of the placenta, and (2) those resulting from a toxemic condition due to a hematoma or apoplexy of the uterine wall which involves the placental site hut did not originate there. Ninety per cent of the patients with the second type are multipars. In the author's opinion, the cause is chronic interstital nephritis. When there is external hleeding the blood is always dath.

and never clots it is not whole blood but hamor rhagic serum expressed from coagula retained in the uterus If the fetus is alive the patient is treated palliatively the symptoms being met as they appear In cases of persistent bleeding labor may be induced by puncture of the membranes It is then allowed to follow its own course. Plugging of the vagina has been completely abandoned

The author contrasts a series of confinements occurring in the period from 1911 to 1919 during which time plugging of the vagina was the principal treatment and hysterectomy or casarean section was occasionally substituted with a series of con finements occurring in the period from 1920 to 1925, during which time palhative measures were used

ALBERT W HOLMAN MD

Stander H J and Peckham C H A Classifica tion of the Toxemias of the Latter fialf of Pregnancy Am J Obst & Gynes 1926 21 583

From a study of 120 cases the authors suggest the following classification of the late toxemias of pregnancy (1) eclampsia (2) pre eclampsia, (3) chronic nephritis complicating pregnancy eclampsia superimposed upon nephritis and (5) the

low reserve kidney

Eclampsia is a fairly definite entity. Its usual signs are convulsions and coma a relatively sudden marked increase in the blood pressure and the excretion of a large amount of albumin in the urine occurring during the last third of pregnancy par ticularly near term and followed by a complete return to normal at the end of the puerpetium Frequently the condition is associated also with an increase in the wise acid and sugar content of the blood a low carbon dioxide combining power and the presence of a large amount of ammonia in the urine All of these findings also disappear rapidly during the puerperium Ophthalmoscopic examina tion may show detachment or ordema of the retina but never any sign of albuminum retinitis or the other changes which are so frequently associated with nephritis

As there is no evidence that eclampsia per se does any permanent damage to the Lichneys it is not to be considered a contra indication to further

pregnancies

I re eclampsia seems to be a definite entity but differs from eclampsia only in being unassociated with convulsions or come and of a milder character The author's studies seem to indicate that this is probably the rarest variety of toxemia of pregnancy its incidence not exceeding a per cent. If it becomes slightly worse the patient will develop convulsions unless the pregnancy is promptly terminated

Chronic nephritis complicating pregnancy is progressive Each subsequent pregnancy is asso ciated with increasing renal impairment presence of chronic nephritis is evidenced by a high blood pressure persisting for two or three weeks after delivery In such cases the diastohe level is of especial significance Patients with chronic nephritis

are usually discharged with a diastolic pressure well over go and in addition about 1/2 gm of albumin in

In cases of low reserve Lidney the last few months of pregnancy may show a moderate rise in the blood pressure usually about 150-90 and a relatively small amount of albumin in the utine ranging from a fraction of a gram to very slightly over 1 gm just before delivery There may also be some ordema Very rarely, there is headache. By the end of the puerpenum the blood pressure has returned to it normal level, the urine is free from albumin or contains only a faint trace of it and any ordema that may have been present has disappeared. At no time are there any signs of a disturbance of the blood chemistry The nitrogen partition in the urine is normal Pregnancy does not injure this type of E L CORNELL M D Lidney

#### Miller C J Glucose and Insulin in the Toxemias of Pregnancy Am J Obst & Ginee 1026 x1 763

For the last five years the author has been using glucose in the treatment of the toxemias of preg nancy, and for the last several months has been employing it with insulin. The success of the method has suduced him to rely upon conservative measures in bandling such cases Routine measures are of course employed also

The proper administration of the glucose is of the utmost importance Proctoclysis is unreliable hypodermoclysis while better is not entirely satis factory The ideal method is intravenous infusion

In the ordinary case Miller has been using a 3 per cent solution of glucose and giving one unit of insulin for every 3 gm of glucose until from ten to fifteen units have been given. It is safe to repeat the procedure

At least forty cases of townia and twenty cases of eclampsia have been treated with excellent results by his modification of the Stroganoff method com bined with glucose Since the recent addition of insulin to the method the results have been even better E L CORNELL M D

Caudiere and Guéria Valmale Maternofetal Blood Reactions (Réactions sanguines maternofétales) Bull Soe d'obst et de gynée de Par 1926 EV 85

The authors report the results of a study of the reactions of the maternal and fetal blood which were made immediately after the birth. The fetal blood was taken from the umbdical cord and the maternal blood from a vem of the arm

Fifteen women and their infants were studied. In eleven cases there was a normal pregnancy terms nating in the normal delivery of a normal child. In nine cases the maternal serum was without effect on the fetal blood cells but in two it caused agglu tination. The fact is emphasized that in at least two cases there was no eclamosia albuminuma or other sign of a toric condition. In ten cases the fetal serum was without effect on the maternal

blood cells, but in one it caused agglutination. The

latter was not one of the two cases in which the maternal serum agglutinated the fetal blood

Eclampsia occurred in three of the fifteen cases. In one the maternal serum agglutinated the fetal blood, but the fetal blood did not agglutinate the maternal blood. In the two others neither serum caused acclustration

In one case the maternal serum caused marked agglutnation of the fetal blood and the fetal serum caused marked agglutnation of the maternal blood. This was the case of a patient suffering from pul

monary tuberculosis

The authors conclude from their observations that eclampsia is not due to the mixture of incompatible maternal and fetal blood

SALVATORE DI PALMA M D

Westphal, U Ten Years' Experience with Eclamp sia (Zehn Jahre Eklampsic) Zischr f Geburish u Gynack, 1920, lxxxx, 626

In 22,800 deliveries occurring in the Hamburg Municipal Obstetrical Institute during the last ten years there were 189 cases of eclampia. One hundred and fifty four of the women with eclampia were primipara. Thirteen were under 20 years of age, seventy one between 20 and 25 years, fifty two between 26 and 30 years, and fifty three older than 30 years. In 138 cases the eclampia occurred during the last months of pregnancy, and in thirty two in the ninth month. Its earliest development was the fifth month. There was no apparent relationship between the weather and the eclampia Neither was it possible to establish a greater number of attacks on days with excessive moisture in the air than on clear days.

In the treatment of severe cases labor was induced as soon as possible but in cases of moderate severity this was not done. When the dangerous symptoms persisted after venescrion (with infusion of sodium chlonde or glucose solution) and the use of chloral hydrate or, as has been the practice in recent years, the use of the sodium salt of luminal and magnesium sulphate, the uterus was immediated to the solution of the solution

ately emptied

In sixty four cases delivery occurred spontaneous by In eighty one the forceps were used In fitteen, version and extraction were done In thenty six cases operative measures were necessary (transperitoneal section in twenty three cases and cranicomy in two). The maternal mortality was 8 sper cent. The fetal mortality was 20 sper cent if all of the infants which died are included in the calculation, but if twelve infants whose body length was under 35 cm are excluded, it was only a per cent.

Rucker, M P The Treatment of Eclampsia
Virginia M Month 1926 htt 97

The prophylavis of eclampsia consists in careful observation of the patient, rest in bed, a carbo hydrate diet intestinal cleansing, and the forcing of fluids when the blood pressure rises. If there is no

improvement, interruption of the pregnancy should be considered

In a follow up study of cases of toxemia of preg nancy treated at the Johns Hophian Hospital, Balti more, it was found that in toxic cases in which the eclampsia was prevented the incidence of Lidney impairment was higher than in those with eclampsia. This was due to the fact that the cases without convulsions were carried along in the interests of the child and the toxic agents therefore acted for longer periods of time

The best obstetrical opinion is rapidly going over to conservative treatment. In an attempt to classify celampsia clinically, the London Committee on Eclampsia of the Third British Congress of Obstetrics and Gynecology gave the following seven phenomena as signs of danger and any two as signifying a severe case. coma, a pulse rate of over 200, a temperature above rog degrees F, a number of convulsions greater than ten, a urine that boils solid, absence of cedema, and a blood pressure above 200 mm.

A table of results obtained in various London hospitals gives the mean mortality of induction of labor and spontaneous delivery as 0 6 per cent. This is the lowest mortality of the listed modes of delivery

In the control of the convulsions morphine holds first place, the author favors large doses. He discusses also the administration of magnesium sulphate intravenously and intramuscularly. He advocates it to relieve convulsions and coma. The forcing of fluids and the administration of glucose are also important. Venesection is advocated especially for cases with bulmonary edema.

The after treatment consists in delivery as soon as the patient's condition warrants it, the tapering off of the treatment with bromides, chloral, and paralde by de, and cautious additions to the diet Pregnancy may be permitted after three years if there is no evidence of permanent kidney impairment

Albert W Holman, M D

### LABOR AND ITS COMPLICATIONS

Theobald G W A Plea for Drastic Reform in the Teaching of Midwifery Proc Roy Soc Med Lond 1926 xix Sect Obst and Gynze 94

Because of the high maternal mortality in England and Wales, the fact that a large number of women are permanently injured at partirition, and the fact that over one third of the 3,000 maternal deaths per year in these countries are due to sepsis, the author advocates a marked change in the teaching of obstetrics to physicians and midwives

He has never known of fatal puerperal sepais in a patient who had not been examined vaginally before delivery. Of thirty five primipare and sixty five multipare who were allowed to deliver themselves, the nurse standing at a distance from the bed (the "Garden of Eden" method), the perineum remained intact in eighteen of the former and sixty two of the latter.

In 200 other cases the nurse prevented the head from being horn too precipitately (the modified Garden of Eden method) Eighty of the patients in this group were primipairs and 120 were multip are. The perineum remained intact in sirty three

of the former and ri6 of the latter

Theobald suggests that nurses be forbidden to make vagual examinations deliver breech presentations or control the fundus during the third stage flu recommends that the modified Garden of Eden method of delivery be adopted that hinders be aboilshed that free drainage and purgation hobtained during the puerperium and that the student living in the maternity hospital spend less time watching operations he will never perform and a great deal more time watching normal Labor

ALBERT W HOLMAN M D

Williams J W and Sun L C A Statistical Study of the Incidence and Treatment of Labor Complicated by Contracted Pelis In the Obstetrical Serice of the Johns Hopkins Hospital from 1896 to 1924 Im J Obst & Greec 100 W 23.

From a review of the cases of contracted pelvas admitted to the obstetrical service of the Johns Hopkins Hospital from 1896 to 1914 the authors found that the usual type of contracted pelvas occur somewhat more than four times more frequently in negro women than in white women (37 31 and 8 66 per cent) while the incidence of funnel pelvas is the same in the white and colored races

In white women the generally contracted pelvis is closely followed in frequency by the typical funnel pelvis while in colored women the generally contracted rachine pelvis is second in order of frequency Rickets plays an extraordinarily important part in the general of pelvic almorramity in the negro woman and an almost negligible part in such almorramities in the being 15 approximation of the period women and experience of the period women and experience of the period women and experience of the period women for the period women to descend the period women to the period women to

With every additional half centimeter of contraction the colored woman has more spontaneous and fewer operative libous than the white woman. The simple flat pelvis is more serious to the white woman than the generally, reachite pelvis is to the colored woman. The white woman has fewer spontaneous and many more operative labors than

the black woman

The generally contracted rachitic pelvis is to be regarded as a manifestation of degeneration. That the child is involved in the process is evident from its smaller size. White women with a flat pelvis usually show no signs of physical degeneration frequently exceed the average in height and weight and have babies of more than average size.

Breech presentations occur approximately twice as frequently and transverse presentations three times as frequently in cases of contracted pelvis as in cases of normal pelvis In the cases reviewed by the authors the gross maternal mortality was 997 per cent and the net maternal mortality 0 44 per cent. The net fetal mortality was 3 54 per cent.

During the twenty-eight years covered by this study, the treatment of labor complicated by con tracted pelvis has undergone many changes

During the first period (from r866 to 1903) the mortality from cessrean section was still relatively high and the op ration was not resorted to until the patient had been subjected to the test of labor Version and extraction high forceps and late casarean section were the operations most common ly employed with the result that both the fetal and the material mortality were relatively high.

In the second period (from roos to 100) pub toomy was introduced while this procedure gave very satisfactory results so far as the mother was concerned the fetal mortality was high. It was therefore performed less and less frequently until family its employment was institled to a single indication namely certain cases of funnel pelvis in Joung women in which it sometimes afforded a young women in which it sometimes afforded a of converting the contracted pelvis into a president was essentially normal. Even with this restriction no pubotomy has been performed on the service since 100.

The last period (from 1910 to 1924) was charac terized chiefly by the greatest possible extension of prenatal care and a considerable increase in the em

ployment of casarean section

The normal weight of the newborn having been set at 3 x50 gm it was found that the numb r of children which attained or exceeded that figure wared greatly in the two races as well as in the several types of pelvis. Practically one half of the white infaints and two third of the colored infaint fell below that limit a fact which explains why spontaneous labor is so much more frequent in the cases of colored women than in the cases of white women

In all cases of generally contracted pelvis the children were small whereas in those of the simple flat and typical funnel varieties they were relatively large

Women with simple flat and funnel pelves are often large and present no manifest signs of physical degeneration. Therefore in many instances the abnormality will escape recognition unless routine pelvimetry is done and the clinical signs of disproportion are noted.

E. L. Corrett, M.D.

Guéniot and Suzor Rupture of the Uterus in a Case of Face Prescritation Hysterectomy (Rupture uterine à la suite d'une pré entation de la face guérie par hystérictomie) Buil Soc d'obst et de grafe de Par 1926 xv 33

The patient whose case is reported in this article was a 22 year-old para ii She stuted that during her labor her obstetrician pressed upon her abdomen and asked her to hear down. Whenever he

exerted such pressure, she experienced a sharp pain in the left iliac fossa. The membranes were

ruptured artificially

Examination of the patient at the hospital revealed complete dilatation of the cervix, a face presentation, thinning out of the lower uterine seg ment with a contraction ring above the umbilicus, and cedema of the vulva The pulse was 92

Forceps having been applied to rotate the bead the infant, which was dead, was delivered with ease As a slight hamorrhage occurred, the placenta was delivered manually Exploration of the uterus then revealed a rupture at the level of the inferior segment on the left side A diagnosis of complete rupture was made

Laparotomy disclosed an incomplete rupture of the anterior wall of the uterus on the left side and a very large subperitoneal hæmatoma. A suhtotal hysterectomy was performed and a Mikuhez drain inserted Immediately after the operation the urine contained blood, but the next day it was clear The convalescence was febrile The patient was dis charged from the hospital on the twenty sixth day

The cause of the rupture in this case was unusual as face presentation without rotation is rare. The site of the rupture-anterior and to the left-cor responded to the large occipital prominence of the bent head The appearance of blood in the urine when the urinary bladder remains intact is a well known occurrence in such cases. The erroneous pre-operative diagnosis of complete rupture was due to the separation of the pentoneum from the SALVATORE DI PALMA, M D

Yule G W A Case of Cæsarean Section in Twin Pregnancy Edinburgh M I, 1926 xxxiii Edin burgh Obst Soc, 49

The author reports the case of a primigravida who entered the hospital about three weeks before term with albuminum of pregnancy associated with vomiting and exdema. The albumin in the urine never fell below o 2 per cent, but the patient's general condition improved

After twelve hours of labor, chloroform anæs thesia was induced and forceps were applied, the head having made little advance. The patient then hecame deeply cyanosed and pulseless and died of gradual cardiac failure A child showing marked head moulding was extracted by casarean section, but failed to respond to resuscitative measures On the removal of the placenta, another child was felt When the second child was extracted the cord was pulsating feebly and slowly After length, mouth to mouth insufflation, it recovered and left the bospital ten days later in good condition

By accurate record, ten minutes elapsed between the death of the mother and the extraction of the living child, a fact which demonstrates that some fectuses can bear appea for a much longer time than others MAGNUS P URNES, M D

Stone E L Obstetrical Shock Am J Obst & Gynec TO26 TI 650

It is suggested that obstetrical shock may depend in part upon factors not ordinarily present or recognized in surgical shock

Routine observation of the blood pressure throughout the course of operation is recommended as the hest prophylactic measure against shock

A clinical syndrome is described which suggests a chnical relationship between toxic states in preg nancy and hability to shock

Schickele has suggested that obstetrical shock may have a definite anatomical and pathological basis in certain organs similar to the lesions of eclampsia Cases of clear cut nephritis described suggest that their pathological changes may simu late eclamptic lesions more closely than has been ordinarily supposed E L CORNELL, M D

# MISCELLANEOUS

McCormick, C O Outlet Pelvimetry and Its Importance Am J Obst & Gynec 1926 x1 794

Because the great majority of obstetrical cases are cared for by the general practitioner, because the majority of medical school graduates become general practitioners and because contracted pelvic outlets are so common, the author believes that the progress of obstetrics cannot be advanced any more rapidly than by greatly emphasizing the important subject of outlet pelvimetry in textbooks and in practical obstetrical teaching

E L CORNELL M D

# GENITO-URINARY SURGERY

ADRENAL KIDNEY AND URETER

Pierl G A Method of Operation for Floating Kiduey (Processo operatorio per la cura del rene mobile) 1rch ital di urol 1926 il 398

Pieri s operation for floating kidney consists es sentially in the use of a bridge of kidney capsule to suspend the lidney from the twelfth rib It is per formed under ether anæsthesia. Israel's oblique incision is made. This extends from the angle between the twelfth rib and the sacrolumbar mass of muscles to the crest of the ihum which it touches at the midaxillary line. The muscles having been sectioned the kidney had is opened and the kidney lifted out An incision is then made in the capsule along the convex margin of the kidney running from a point at the juncture of the upper and middle thirds to a little above the lower pole and another one is made parallel with it on the convex surface The bridge of capsule between the incisions is care fully dissected free of the kidney cortex and a sterile cord attached to a Pean forcers is passed through it. The twelfth rib is then exposed and denuded of periosteum a fine forceps is passed through an incision made in the posterior surface of the periosteum the cord through the bridge of capsule is grasped and the loop of capsule is drawn up and pulled over the end of the rib This brings the kidney into an almost normal position

The advantages of the operation are that its technique is simple it does not require any artificial means of fixation it causes minimal trauma to the kidney as only a small part of the renal surface is decapsulated and it fixes the kidney in an approx

imately normal position

The author has treated seven patients by this method. They are now free from pain and the kidney can be felt in the normal position. In his recent cases Pierr has made a notch in the rib for the loop of capsule to rest in to prevent its shipping off

ALDREY G MORGAN M D

Pisani L. Total Infarction of the Kidney from Traumatic Necrosis of the Vascular Peduncte (Infarto totale del rene per tromb) i traumatica del peduncolo va colare) treh ital di ural 1926 it 493

Total infarction of the kidney is rare and has very seldom been dan, nosed. In a review of the literature Falci was able to find only twenty two cases. Two of these were treated by nephrectiony with recovery Pisani reports the case of a man of 33 years who was thrown violently from a truck striaing on his right side and five months liter was admitted to the hospital with kidney symptoms. After a month adaptions of total infarction was made and the right dangoosis of total infarction was made and the right

kidney was removed. Uneventful recovery resulted The direct cause of infarction is sudden arrest of the circulation by occlusion of the artery or vein As these are terminal vessels their occlusion is followed by total necrosis. The indirect cause is thrombosis or embolism. From the slow develop ment of the classical symptoms in his case Pisani concludes that a beginning marginal thrombosis was gradually transformed into an occluding thrombus As there was no hamaturia he believes the direct and immediate action of the trauma was exerted on the bed of the kidney rather than on the organ it self though there may have been sudden traction on or torsion of the p dic leat the time of the accident to explun Histological examination showed signs of organization of the thrombus which indicated that it had been present for some time

The symptoms in this case were classical although they developed slowly and although there were remis sions and exacerbations which are rather difficult to explain Albumin and casts appeared in the urine early and about a month after the accident the patient was treated for nephritis. There was no history of hamaturia and at the time of the patient s admission to the hospital there was no oliguria the average daily amount of urine being 1,500 ccm However the symptoms included dysuma pol lakturia and burning pain which are not mentioned in the reports of other cases. There were also the general symptoms of chills and fever thirst nausea headache and prostration due to the ab orption of the products of the necrotic infarct functional examination of the right kidney showed

absolute arrest of its function

While many of these symptoms are common to other kidney diseases and many urole, sits hold that a diagnosis of infarction is impossible. Pisan is of the opinion that the diagnosis may be based on the following traid of symptoms: (r) continuous and suddents beginning viol in prini localized in the kidney of the kidney and (g) a marked general toxic infectious condition.

If the infarction is unilateral nephrectomy should be performed at once. The only cases in which recovery resulte were three in which the affected ladney was remo ed. Audring M. M. Dorgan M. D.

Helmholz II F and Bowers M R The Kidney
A Filter for acteria VII The Passage of
Baciltus Coli brough the kidney with Acute
Sraphylococci Lesions Im J Dis Child
1926 XTu 8,6

The frequency with which pyclitis occurs secondarily to infections in other parts of the body and the relationship of foc infection to pyclitis makes it

seem probable that the invasion of the colon bacillus is often only secondary to some acute lesion of the kidney

In the experiments reported in this article the animals were injected intravenously with a twenty four hour culture of staphylococcus after a pre liminary catheterization to determine that the urine was sterile. From two to eight days later, when the urine showed many staphylococci and large amounts of pus, a twenty four hour culture of colon hacillus was injected intravenously. The animals were then killed with chloroform at varying intervals and the urine was examined for colon bacilli The experi ments were conducted with and without diuresis The findings for periods up to twenty four hours seem to warrant the conclusion that the presence of acute staphylococcic lesions of the renal paren chyma and of the pelvis does not render the kidney permeable to the colon hacillus Individual experi ments in which the intervals were forty eight hours, seventy two hours, thirteen days, and fourteen days, were also negative

Nichols, B H Interpretation of the Pyelographic

Nichols, B. H. Interpretation of the Pyelographic Shadow Reddolog, 2 to 5 t. 460 Eisendrath D. N. and Arens, R. A. Variations in Normal Pyelograms. A. Clinical Radiological Study Reddology 1926 vt. 474
Grant, O. Shadows in the Urtinary Tract from a Practical Urological View Radiology 1926 vt. 2016

According to Nichols, the correct interpretation of the deviations from the normal presented by a pyelogram of a kidney pelvis and its calcyes is by far the most important factor in the pre-operative diagnosis of pathological conditions of the kidney Errors in interpretation are due most frequently to failure to recognize a congenital anomaly of the kidney pelvis or an attempt to interpret an incompletely filled Lidney pelvis

Numerous anomalies are described, ranging from the embryonic type of kidney pelvis to the pelvis with many calves, from a pelvis with an elongated cephalic calys to one in which the pelvis and ureter are completely divided as far as the bladder and from a slightly rotated pelvis to the almost completely inverted pelvis of the horseshoe Lidney Variations of position are also given consideration with special reference to the information which may be obtained from the pyelogram

The findings in various pathological conditions such as hydronephrosis, empyema of the Lidney, pyelonephritis, pyelitis, pyonephrosis and tiber culosis of the kidney are described in detail Men tion is made of the fact that occasionally renal stones which are not recognizable by the ordinary kidney examination are rendered visible as negative shadows by pyelography If they are spherical they may simulate tumor

The pyelogram is of special importance in the differentiation of tumors of the Lidney The findings which should be considered in its interpretation when a tumor is suspected are enlargement of one pole of the kidney with obliteration, compression, or distortion of the calvees in that area The entire kidney may be invaded by the tumor, the pelvis heing more or less obliterated and the calyces elongated and spindle shaped, with dilated ends Polycystic kidneys show characteristic cystic areas encroaching on the pelvis, and a solitary cyst if large, encroaches on the terminal calyces

EISENDRATH and ARENS describe various types of normal pvelograms and illustrate them with roentgenograms They are of importance as a standard with which to compare the pyelograms obtained in cases of inflammatory lesions and neo plasms of the kidney A brief description of the authors' technique in pyelography is given. The pyelograms utilized for the study reported were chiefly those of the side opposite that to which the clinical symptoms and findings pointed In the remainder, they were obtained in cases in which all findings were negative

The authors divide their cases into four groups Group I comprised those with variations of the ampullary pelvis. Group 2, cases with transition forms varying from those with a long superior major calyx to those with a bifid pelvis and those with two separate pelves Group 3, cases with the pseudo spider 'type of normal pelvis, and Group 4 cases which it was impossible to classify

Grant emphasizes the need for cooperation he tween the roentgenologist and urologist to ohtain the hest results in urological diagnosis. To make a diagnosis of urinary concretions from shadows seen in the roentgenogram along the urinary tract it is frequently necessary to consider also the chinical undings which the urologist can obtain hy cystos copy or other means On the other hand, the dis covery of stones in the bladder on cystoscopic examination should lead to a thorough roentgen examination to ascertain the possible presence of others which may not have been visualized. The detection of small particles of stone in the kidney at the operating table by fluoroscopy or plate is another proof of the interdependence of roentgenology and urology In horderline cases, the pyelogram can be read with only approximate accuracy If the picture as not positively diagnostic, the proof must rest on the chaical findings ADOLPH HARTUNG, M D

D Agata G Suture of the Renal Pelvis After Pyelolithotomy (A proposito della sutura del bacanetto renale dopo la pielolitotomia) Arch stal de urol 1926 11, 267

There has been a great deal of discussion as to whether it is necessary to suture the incision in the kidney pelvis after pyelohthotomy Recently, for the removal of a very large stone, D Agata substituted for the usual longitudinal incision a curved one with an obtuse angle Through this incision the stone was readily removed. To close the apex of the angular incision he used three fine catgut su tures Uneventful recovery followed

The author believes that if the incision is not to he sutured it should be sharp and clean cut and without contusion of the edges such as is apt to occur if a large stone is removed through the usual longitudinal incision. His angular incision is hest for the removal of large stones

To settle the question as to whether suture is nec essary, D Agata performed three series of experi ments on dogs In one series he made longitudinal incisions from 04 to 07 cm long in the kidney pelvis and did not suture them. In another he made his angular incision and did not suture and in the third he made his angular incision and sutured the

In the animals in which longitudinal incisions were made and not sutured spontaneous healing occurred In those with an angular incision spon taneous healing occurred only when suturing was done A few sutures should therefore he applied at the apex of the angle to prevent extraflexion of the margin of the wound which impedes normal cicatri zation. It is also best not to denude the remon of the wound of the external connective tissue and the loose fatty tissue around the pelvis as these help to cement the hps of the incision at first If a longitudinal incision is sufficient it should not he sutured but when an angular incision is neces sary because of large size of the stone a few sutures should be used AUDREY G MORGAN M D

Rusche C F Carcinoma of the Kidney California & West Med 1926 XXIV 474

Rusche reports the case of a man 69 years of age who entered the hospital complaining of pain in the epigastric region and constipation. The pain was sharp but not colicky or radiating At frequent intervals the faces contained blood There were no symptoms referable to the genitourinary tract The urine was microscopically and chemically neg ative Cystoscopy revealed no evidence of urethral obstruction and no residual urine

The left ureteral catheter was inserted readily but it was impossible to introduce the right catheter more than 2 cm The left kidney secreted normal The urine collected from the right side clear urine was turbed chiefly because of bleeding caused by the numerous attempts made to pass the catheter On account of leakage around the ureteral catheters an accurate comparative functional test was impos sible It was apparent however that both kidneys were functioning

Pyelograms made with the use of sodium hromide showed the left renal pelvis to he normal in size, shape and outline There was no dilatation of the

calvces

The right kidney was markedly displaced upward and inward and the capacity of its pelvis was greater than the normal average The upper calvees of the right kidney were normal in shape and outline The inferior calyx was distorted and elongated to such a degree that it lay parallel with the preter for a distance of 4 cm

A ureterogram showed that the ureter howed toward the midline so that it overlay the vertebral column giving conclusive evidence that the abdom mal mass was retroperatoneal The right ureter was somewhat dilated There was no evidence of a calculus or a stricture

The chief points of interest in this case were The difficulty in diagnosis presented by the

absence of hamaturia and the vagueness of other symptoms immediately referable to the kidney 2 The value of ureteral catheterization and pye lography in the diagnosis of kidney tumor

3 The unusual size of the palpable mass and the

difficulty of ruling out intra abdominal tumor 4 The absence of any discoverable metastases and the excellent general condition of the patient nine months after the operation

Louis Gaoss M D

Allenbach Boeckel and Franck Imperforate Supernumerary Ureter Diagnosis by Pyelog raphy Partial Nephro Ureterectomy (Uretere surnuméraire borgne diagnostie pyélographique néphro urétérectomie partielle) J d'urol méd et chir 1026 XX1 46

A woman of 27 years who had been previously well hegan to bave daily attacks of abdominal pain with enlargement of the abdomen There was no disturbance of micturition. After four months the symptoms stopped and the abdomen returned to its normal size Subsequently the patient suffered another attack which was more violent than the first and accompanied by signs of intestinal occlu

At operation a fluctuating tumor so cm long was found at the site of the left ureter A diagnosis of dilatation of the left ureter having been made the abdomen was closed, it being the surgeon s intention to attempt to remove the obstruction by catheten zation of the ureter However on cathetenzation the next day both ureters seemed normal

After the laparotomy the patient remained well for seven months but then had an attack of intense abdominal pain and distention accompanied by fever Vaginal examination revealed a fluctuating protrusion of the anterior wall. On the following day this opened spontaneously and discharged a large amount of pus After the discharge of the pus the temperature returned to normal

The tumor discovered at the first examination the ahdominal spasms on the left side, and the evacuation of pus through the vagina suggested a supernumerary ureter This diagnosis was verified hy making a second pyelogram of the left ureter and at the same time injecting collargol into the

vaginal fistula

Operation showed the supernumerary ureter to he entirely separate from the normal one The upper part of the supernumerary ureter was re moved with a wedge cut from the upper pole of the kidney The lower end was left in order to avoid prolonging the operation Recovery was com

plicated by suppuration in the stump which was not

extirpated

This patient had had an imperforate ureter for twenty three years without any symptoms, although imperforate excretory canals are generally considered to be very serious The reason why the symptoms developed slowly was revealed by histological examination of the specimen. The ureter appeared grossly to be blind at its upper as well as its lower end, but microscopic examination showed that it had originally communicated with a part of the renal parenchyma, glomeruli were found in the fibrous tissue which connected the upper end of the ureter with the upper pole of the kidney There had probably been filtration of urine into the ureter since birth, but the part of the kidney drained by this ureter was very small

The ureter had apparently become affected at the time of the first attack of abdominal pain five years before Ureteral inflammation generally extends to the periureteral tissue and causes peritonitis

The symptoms depend upon the site of the lower end of the supernumerary ureter Spontaneous perforation of the lower end must be confirmed by roentgenography The operation of choice is sub peritoneal resection of the imperiorate ureter and resection of the segment of kidney which it drains

Only twenty three cases of imperforate super numerary ureter have been reported. The authors case is the fourth one in which operation was performed AUDREY G MORGAN, M D

Stewart R L Primary Tumors of the Ureter Brit J Surg 1926, x111 667

Since 1922 when Aschner collected forty seven published cases of primary ureteral tumors. Stewart has been able to collect five additional cases in the literature He reports also one of his own

Stewart's case was that of a 75 year old woman who complained of pain in the right side and hæmaturia which had begun eight months previously The first attack of hæmaturia lasted three weeks The patient was then free from symptoms for three months, when a second attack occurred Thereafter the pain in the side persisted up to the time the patient was admitted to the bospital

Physical examination was negative except for tenderness on deep palpation in the right hypochondriac and lumbar regions. Cystoscopic exami nation revealed a hullous cedema about the right ureteral orifice Ureteral catheters were passed on the left side for a distance of 30 cm and on the right side for a distance of 15 cm. Pyelographic studies showed obstruction of the right ureter at the level of the lumbosacral articulation. At operation, the

kidney was found to be of normal size. The ureter also was normal in its proximal 6 cm portion, but below this there was a fusiform swelling 3 cm long The kidney and ureter were removed The pathological examination showed a dilatation

of the ureter proximal to the tumor The tumor was of a sessile papillary type with a pedunculated growth extending down into the lumen of the ureter The distal portion showed microscopically the typical picture of a proliferative benign papilloma In the proximal portion there were evidences of beginning infiltration. The diagnosis of primary papillary epithelial tumor of the ureter was made

Calculi are supposed to be an etiological factor in a certain percentage of cases as they were found in

eleven of the fifty four reported

Neoplasms of the ureter are most common in the sixth decade of life. Their incidence in males is

about the same as in females

Stewart gives the following pathological classifica tion of ureteral tumors (A) Connective tissue tumors sarcoma (B) Epithelial tumors (1) benign papilloma, (2) papillary carcinoma, and (3) non papillary carcinoma

Sarcoma is rare, only five cases have been reported Benigh papillomata are the most common tumors of the ureter They are usually situated at the proximal or the distal end

Papillary tumors, which are especially prone to become malignant, are usually located at the lower end of the ureter

The non papillary carcinomata are the rarest

forms of epithelial tumors of the ureter

Practically all ureteral tumors produce a secondary hydronephrosis The malignant forms metastasize

early to the retroperatoneal nodes

Hæmaturia, the most frequent sign, occurs in 65 per cent of all cases and in over 75 per cent of cases of papilloma and papillary carcinoma Pain, which is much less common, varies from a dull ache to sharp lancinating pain. Hydronephrosis has been found in 55 per cent of the cases. Tumors of the ureter may very closely simulate calculi, renal and and vesical tumors, and bydronephrosis

The diagnosis is difficult, in nearly 40 per cent of the reported cases the tumor was discovered after death If a tumor can be seen on cystoscopic exam mation protruding from the ureter into the hladder, the diagnosis is much easier. When the introduction of a ureteral catheter is obstructed and is followed by profuse bleeding, the possibility of a ureteral tumor must be borne in mind. The use of the pyelogram offers the most help in the diagnosis

The treatment depends upon the type and loca tion of the tumor and the patient's condition In most cases the ideal treatment is complete nephro ureterectomy If the tumor is at the lower end of the ureter and projects into the hladder, endoscopic fulguration or local excision with re implantation of the ureteral stump into the hladder may he the method of choice ALTON OCHSNER M D

#### BLADDER, URETHRA, AND PENIS

Rubrituus II, and Schwarz O Contribution to the Problem of Contracture of the Neck of the Bladder J Ural 1926 TV, 461

The changes in the sphincter of the bladder and its nerve supply which lead to retention range from prostatic hypertrophy to microscopic enlargement of the persurethral glands inflammatory changes in the sphincter strictures of the urethra, spinal cord dis ea e hysteria etc. These conditions result in a loss of sensitiveness of the reflex diminution of elasticity hypertonicity and finally mechanical contracture of the ornice

It is impossible to designate this entire group of conditions by any one term that will convey more

than the term retention

The authors do not recognize a strict differentiation between structural and functional factors common functional factor in practically all cases of retention is hypertonus of the sphincter This is the same whether it is brought about by a small adenoma or by inflammatory contraction In one group of cases the hypertonia was so marked that it must be considered the only cause of the retention

The best method of treatment consists in trans vesical incision into the sphincter and the enuclea tion of any periorethral adenoma that may be

C TRAVERS STEPITA M D

Avsaguer and Papin The Use of Heat and Cold in the Urethra (Les methodes thermo et croo therapeutiques dans lurethre) J durol méd et chie 1916 xvi 178

The heneficial action of heat and cold on in flammatory processes of all kinds is well known The author uses heat and cold in the treatment of gonorrhozal urethritis. A rubber band having been placed around the root of the penis to slow the circulation the patient takes a position on all fours with cushions under his knees and hands and im merses the penis in a Dewar fla k containing hot water or melting ice

Heat can be applied without causing pain up to a temperature of 43 degrees C in the urethra or up to 43 5 degrees C if a dose of 1 5 gm of pyramidon is given beforehand. This is called the threshold of pain for heat. With an asthetization of the penis

a higher degree of heat can be borne

Gonococci are killed at 454 degrees C in vitro and probably at a lower temperature in tito at any rate their multiplication is storped it 305 degrees C. The heat can be continued for an hour and a quarter without doing any harm. As soon as the penis is removed from the bath and the band is removed it regains its normal color

In the use of cold pain begins at about 14 degrees C which is called the threshold of pain from cold Between 11 and 6 5 degrees C the pain stops and there is anæsthesia to the touch This is the threshold of anæsthesia from cold definite than the thresholds of pain Cold is better than heat for the patient because of the natural anæsthesia it induces and because cold is as oci ated with much less danger of coagulation of the

As the vitality of the conococcus is low when it is removed from the incubator it is probable that it can be killed by a rather moderate degree of cold

The simplest method of treating with cold consists in heating the penis and exposing it to the air when the weather is cold enough. This method might be used for prophylaxis

So far, the author's work has been limited to the development of the technique and the determination of the degrees of heat and cold that can be borne without injury

The results of the therapeutic application of the method will be reported fater

AUDREY G MORGAN M D

Botteselle R Modifications of Flap Urethroplasty

In Perineal Fistula of the Urethra (Modificazione at pro esu di uretroplastica a lembi pel e fi tole uretrali perineali) Arch ital as urol 1926 ii 256 In Botteselle's urethroplasty for fistula of the

urethra opening on the perineum the patient is placed on his back with his thirds flexed is for a permeal evstotomy a No 20 Nelaton sound is introduced into the urethra and two parallel trans verse incisions are made at the two ends of the fistula and prolonged far enough laterally to form the two ides of the flap to be used A vertical incision uniting the two transverse incisions is then made at the right margin of the fistula

The cicatricial tissue around the orifice is excised in such a manner as to leave the margins of the excised area perfectly rectilinear. Another incision is then made i cm to the left of the horder of the excised area to unite the two transverse inci ions and form the fourth side of a rectangle. In this way a rectangular flap is ereated which is sufficiently large to cover the fistula without changing the caliber of the eanal The flan is di sected free except for a hinge at its right border turned over the fistula and fastened with fine non penetrating

catgut sutures

The two original transverse incisions are then prolonged a little to the left and much more to the m ht to form two quadrangular flaps somewhat different in size The e flaps are brought together and sutured with silk. The transverse incisions are also sutured. The longitudinal line then lies to the left of the midline and because of the different elasticity of the superficial and deep tisues the superficial and deep suture lines do not he over each other The region is dressed with a T bandage and a retention catheter is introduced for forty eight

For succes ful results the urine must be asentic and the urethra normal in caliber above and below the site of the operation Drainage is not necessary The operation should be done under ceneral anxis the ia as local anosthesia causes imbibition of the tissues which may interfere with their vitality and prevent prompt healing The cutaneous flap should be denuded of hair as hairs favor the formation of urethral calcula Depilation by electricity should be done before the operation

The steps in the operation are shown in illustra tions AUDREY G MORGAN M D

#### GENITAL ORGANS

The Indications Technique and Cattaneo G Resuits of Freyer's Prostatectomy (Indicazioni condizioni permittenti, tecnica e resultati prossimi della prostatectomia alla I reyer) Arch ital di urol 1926 11 93

Freyer's operation is a suprapubic prostatectomy which may be performed in one or two stages as indicated To prevent postoperative hæmorrhage an intravenous injection of 20 c cm of 5 per cent calcium chloride is given the day before the operation and another two hours before In about balf of the cases treated in this way it has been possible to dispense with tamponade of the bed of the prostate During the first years this method was used at the Milan Clime (1909 to 1913) the mor tality was 14 38 per cent, in 1921 it was 4 55 per cent, and in a series of 100 cases operated upon in the period from Mav, 19-3, to May 1925 it fell to 1 per cent Details of these 100 cases are given in a table

Retention of urine is the chief indication for operation. If the urine is aseptic and small in amount (less than 100 c cm ) expectant treatment is justified, especially if the patient can present bimselt for periodical examinations to determine whether the retention is progressing or remaining stationary

Absolute indications for prostatectomy are re peated hæmaturia the suspicion of cancerous de generation, primary or secondary calculosis and papillomatous tumors and diverticula of the

hladder

Operation is indicated in cases of septic retention because no palliative treatment can overcome sensis of the bladder when once it has become established Prostatectomy should not be performed as an emergency operation. In emergency cases a supra pubic cystotomy should be done first and the major operation postponed until the patient is in a better condition Before operation an investigation of the function of the kidneys should be made by the determination of Ambard's constant and the phenol phthalein test

However, these findings should not be considered an absolute guide, the general condition must be

considered with them

In the majority of cases prostatectomy should be performed in two stages, the one stage operation being reserved for small prostates deformity of the neck, and musculo fibrous lesions The improve ment in the results of the operation is due in great measure to the abandonment of general anæsthesia in favor of local anæsthesia for supra pubic cystotomy and epidural anæsthesia for prostatectomy Although the mortality has been greatly reduced, it must be remembered that prostatectomy is a serious operation and every patient with a prostatic condition must be given a careful examination and preparation

AUDREY G MORGAN M D

Tenewall C Two Hundred and Fifty Suprapubic Prostatectomies for Hypertrophy of the Prostate Acta chirurg Scand , 1926, liv 455

The author reports the results of 250 suprapubic prostatectomies performed by him during the period from 1910 to 19 3 The late results in 188 cases are Lnown

Twenty seven of the patients are dead, a mortality of 10 8 per cent Good results were obtained in 180 cases (7º per cent) fair results in two (o 80 per cent) and poor results in six (2 4 per cent)

Tengwall performs the operation according to the Freyer technique but drains the bladder with a retention catheter Only local anæsthesia is used The prostatic bed is tamponed The greatest importance is attached to the testing of the function of the kidneys For this test Volhard's water charge test is used in connection with the concentration test and recently, also with the determination of the blood nitrogen

If the kidney function is poor pre operative treatment under the control of repeated tests of kidney function made by draining the urinary passages and the administration of an abundant supply of fluid are of great importance. If the function of the kidneys improves only slowly under this treatment, the operation should be performed

in two stages

One definite indication for operation is chronic complete retention. This is present in the cases of all patients who live what is known as the 'catheter life ' The most common indication for operation is chronic incomplete retention Operation is indicated also by a residual urine of from 50 to 100 c cm associated with frequent urination performed only with great effort and straining Other indications are unendurable pain during urination and violent intravesical bleeding

In 145 cases in which a microscopic examination was made cancer was found in only one Therefore the author does not regard the danger of cancer as an indication for operation. Infection in the urinary passages is not a contra indication to operation, but renders necessary careful preliminary treatment and control of the functioning of the kidneys

The author attempts to explain the deaths and the poor and fair results in his cases and discusses the effect of the operation on the sexual functions in

seventy four cases

The complications developing in the cases re viewed included epididymitis which occurred in 23 per cent-in the majority during the after treat ment-and strictures which occurred seven times In three of the cases of stricture there was complete closure of the base of the bladder which necessitated operation

The author emphasizes the importance of repeated examination during the first six months after the operation in order to prevent stricture. Hermin of the wound occurred in four of his cases, but there was no instance in which fistula of the bladder persisted

#### MISCELLANEOUS

Young H H The Diagnosis and Treatment of Hamaturia Atlantic V J 1925 xxx 587

Hamatura may be due to a general condition such as purpura leukamia or typhoid fever Hamoglobinura differs from hamaturia in the color the microscopic findings and the findings of the henaulu and spectroscopic tests

Chief of the hamaturias associated with specific local conditions are the so called idiopathic hamaturias in which the pathological examination fails

to show anything abnormal

Traumatic hematura is common in war and indistinal surgical cases. Calculus is a common cause that is less commonly responsible than tuberculesis. The bleeding is not at all common surate with the size of the calculus. Other common causes of hematuria are tumors. When a tumor is responsible the seventy of the bleeding depends upon the ettent to which the kidney polivis is involved. Ancursing of the renal artery as a cause of hematuria is occasionally reported in the literature. The symptoms of aneurisms are very vague but in some instances a cure bas been obtained by operation.

Hamaturia associated with nephritis pyelone phritis pyelitis or pyelitis cystica is difficult to differentiate from that due to tuberculosis or cal culus. The humaturia of septic infarction is usually unilateral and fulliminating and causes death within a lew days unilate suckess operation is performed early Bleeding from tumors of the bladder may be excessive. Bleeding from yesual tuberculosis is not as severe as that caused by tuberculosis of the kidney. Foreign bothes are often the cause of humaturia but diverticula are seldom responsible. Prostate bleeding is common but in carcinomia of the prostate it usually does not occur until late in the course of the disease.

Bleeding from the bladder or urethra may often be stopped by the use of styptics or caustics ful guration or radium. If a kidney or a preter is the source of the bleeding a definite diagnosis can be made as a rule by cystoscopy with pyelography or pyelo ureterography and comparative functional tests of the kidneys Essential bamaturia may be stopped by the passage of the ureteral catheter or the injection into the kidney pelvis of a 1 to 5 per cent solution of silver nitrate. In cases of tumor or tuberculosis of the urinary tract it is usually best to stop the hamaturia if possible by transfusion and to improve the general condition Bladder tumors respond well to fulguration diathermy and radium treatment Infiltrating carcinoma requires surgery or radium irradiation, and prostatic bleeding may demand prostatectomy

CLAUDE D HOLMES M D

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

#### BLOOD VESSELS

Nystrom G The Prognosis and Technique of Embolectomy (Zur Prognose und Methodik der Embolektomy) 4c a chirurg Scand 1926 lx, 2 9

In more than one third of the reported cases of embolectomy for impending gangrene of the extrem ities the operation bad a clinically favorable result Arteriosclerosis does not exclude a good result, but when there are more serious changes in the intima there is danger that sounds introduced into the vessel may be caught in furrows in the intima and cause tunneling. In cases of emboli at the bifur cation of the aorta or in the common thac artery laparotomy is not advisable as it is technically diffi cult and associated with great risk. If the embolus cannot be removed by a sound introduced into the vessel it is advisable to introduce the band from the groin retroperitoneally and to "milk down" the embolus to a convement site in the femoral artery from which it can be removed by arteriotomy

The author reports five cases of embolectomy. The first was that of a man 54 years of age who was suffering from arteroscleross and an embolus in the lower part of the femoral artery. After twenty four bours arterotomy was performed above the embolus and the embolus was pushed down by means of a sound and removed through an incision in the populted artery. The circulation was restored but gangrene supervened and necessitated ampuration of the lee

The second case was that of a woman 64 years of age who had heart disease and emboli in both femoral arteries in the groin. The emboli were removed by arteriotomy performed directly over them. The circulation was completely restored and the patient survived.

The third patient whose case is reported was a man 68 years old who had advanced arteriosclerosis. myocarditis, and emboli in both iliac arteries. An attempt to bring the emboh down after arteriotomy in the groin was unsuccessful. In the performance of the laparotomy the division of the common iliae artery into the external ihac and the hypogratric was mistaken for the bifurcation of the norta. This error was due to too small an incision, great cor pulency of the patient, and large vessels hypogastric artery, full of thrombi, was believed to be the left common that and was cut open. It was then sutured An attempt to remove the embols directly through the laparotomy incision was un The hand was therefore introduced through the incision in the groin behind the peri toneum, upward along the vessels on each side, and the emboli were milked down to the sites for arteri otomy in the femoral artery The obstruction to the circulation was thereby removed but during the operation a new thrombus appeared in the right femoral artery. The patient died after twenty four hours and postmortem examination revealed throm bosts of both femoral arterus.

Case 4 was that of a woman 56 verus of age who had a thrombus in the right line vein, an embolis in the right pulmonary artery, paradoxical arternal embolism (through the open foramen ovale), and emboli in the brain and both common sine arteries. Through incisions parallel with the inguinal ligament on each side it was possible, retroperitoneally, to milk, down the emboli in the line arteries and remove them through an arteriotomy incision in the femoral artery. The circulation in the legs was strong pulse in the arteries of both feet, but the national arteries of both feet, but the

The fifth case was that of a man 77 years of age who had an embolus in the left brackerl artery. Embolectomy performed after three and a half hours had a good result. In connection with this case the author cites another of brackerl embolus in which operation was not performed because the patient entered the hospital late (the fifth day). The author believes that the later appearing gangrene would perhaps have been avoided if an immediate embolectomy had been done

Giordano, D. Ancurlson of the Abdeminal Aorta with Gastrie Symptoms, Introduction of a Silver plated Wirolate the Sneed the Ancurlson (Ancursons dell aorta addominale con sinto matology, gastrea, introduzione di file argentato nel sacco ancursonaleo). Ann stal di cher, 1926, 9, 125

The author reports the case of a man 40 years of age who entered the hospital with what was believed to be a tumor of the lesser curvature of the stomach Lifteen years ago the patient contracted syphlies I or this he was given calomel injections, but at the end of a month he discontinued the treatment because he felt well. About seven years ago he began to have a burning pain in the stomach which occurred about two hours after meals and lasted for an hour or two Two years ago he lost 2 kgm in weight and, in addition to the burning sen sation, experienced a feeling of welf lit in the enusastrium which began after meals with pain lasting for one or two hours and was associated with acid regurs itation and constipation. For the past five months he had had eph astric pain Irradiating to the back

Huoroscopic examination showed a defect in the lesser curvaturn which was assumed to be due to a tumor

On physical examination the patient was found to be poorly nourished and pale and to have a feeted breath from dental carees The abdomen was rather rigid and pain was present in the epi gastric region. The pain was most severe in the midline beneath the ensiform process. The rigidity of the muscles made examination difficult but pal pation revealed a tumor with an arterial pulsation The pulsation was thought to be transmitted Roentgenographic examination showed a large stomach with a tendency toward hypotoma and deformity of the shadow of the pylorus and antrum where pressure was painful

An epicastric incision revealed a plusating retro gastric tumor the size of a fist which was very evi dently an aneurism of the subdiaphragmatic aorta

Through a large swringe needle a 30 cm piece of thin copper wire plated with silver was passed into the ancurism and coiled within it. The bleeding has stopped by the injection of 5 c cm of coagu len into the tissues around the aneurism. After the operation intravenous injections of an arsenobenzol compound and intramuscular injections of calomel were given

A month after the operation roentgen examination showed that the end of the wire had become un coiled and had risen in the aorta from the level of the second lumbar vertebra to the level of the seventh dorsal vertebra. At another examination fifteen days later the wire was found in the same position and a semilunar segment of the lower and anterior part of the aneurism appeared more opaque suggesting the presence of stratified clots adherent to the wall. As the patient felt well and was relieved of all his gastric symptoms be left the hospital and refused to return for further injections

When he was seen again two years and three months later he had gained weight his color was good and he still felt well Epigastric palpation still showed pulsation from behind forward but no lateral expansion. Roent genoscopic examination revealed no expansion of the tumor Roentgeno graphic examination showed that the upper part of the wire had broken off and had risen in the aorta.

curving with the arch of the vessel

It is impossible to determine whether the result in this case was due to the introduction of the wire into the aneurism or to the antisyphilis treatment but as the improvement began immediately after the operation Giordano believes the surgical treat ment was at least partly responsible for it presence of the broken wire in the aorta is still a cause for anxiety

Articles by Colt Marshall and Wakeley in the July 1025 issue of the British Journal of Surgery review three similar operations. One of the patients survived only eight and a half months and the others died within a few days after the operation Because of the danger of acute dilatation of the stomach from the pressure on the pyloric or prepyloric region the authors advise gastro enterostomy after the insertion of wire into the aneurism but Giordano

calls attention to the fact that in his case the opera tion not only failed to cause gastric symptoms but relieved those which were already present Giordano is unable to say however whether the relief was due to the decrease in the expansion of the aneurismal sac or to section of sympathetic fibers in the exposure of the sac above the lesser curvature

AUDREY G MORGAN M D

### BLOOD TRANSFUSION

Morawitz P Blood Transfusion (Ueber Bluttrans fusion) Monatsschr f Ainderheilk 1926 xxx1 320

Severe reactions to transfusion are caused by 1 o agglutinins and isolysins Some of them may be presented by determining the group of the donor and recipient before every transfusion either with the use of the serum of a member of the clinic staff belonging to Group I or 2 of by means of a test serum In spite of this however chill occur when the blood is of the proper type and occasionally severe reactions are caused by repeated transfusions In one case in which blood of Group 3 was given a patient belonging to Group 1 the reaction has so severe that it was necessary to stop the transfusion It is possible that the group classification of Moss may not exactly correspond to the conditions pres ent. Nevertheless it should always be used reliance is not to be placed upon a biological test alone

Besides carbon dioxide poisoning the indications for transfusion include the anamias. An especially important indication is pernicious angenia. Most secondary anamias become cured even without transfusion when their cause is tuberculosis or a tumor transfusion is without avail. Transfusion is especially beneficial before operation in cases of bleed ing gastric ulcer and in cases with a hamorrhagic diathesis. In a case of true hæmophilia it saved the patient's life but it did not shorten the coagula

tion time

Most of the oo transfusions reviewed by the author were done for pernicious anæmia A large transfusion in this condition is sure to result in a remission Transfusion is superior to Neisser and arsenic therapy and should be employed before the extirpation of the spleen. The remissions may last for a year or longer. The results are better in young persons than in old persons

Small intramuscular injections of blood are with out effect in pernicious anæmia but may be of value in secondary anæmia in which there is a lack not only of iron but also of some of the other important elements of hæmoglobin The author is of the same opinion with regard to the effect of intravenous in jections of small amounts (10 to oc cm) of blood

Results may be obtained with every form of transfusion The internists and pediatricians prefer the indirect methods The results are best when the

patient reacts with chills and fever

In discussing the length of time that the trans fused erythrocytes survive the author calls attention to the fact that these cells are free cells without nuclei and nearly with a metabolism. Conditions are therefore more favorable for their survival than for the survival of other transplants. There is considerable evidence that they may survive. Hess was able to produce an artificial polycythæmia in rabbits by transfusion. Inone of the author's cases of secondary anæmia with pale erythrocytes poor in hæmoglobin the microscope still showed the presence of the highly colored transfused erythrocytes eight days after the transfusion.

Studies of the nitrogen metabolism lead to the same conclusions. In a case of pernicious animathe quantity of uroblin excreted to a period of two days after the transfusion corresponded to the amount of bemo-lobin transfused. Before the transfusion the quantity was 1,700 mgm whereas in the two days following the transfusion it was 4,000 mgm. Evidently the entire quantity of blood transfused was broken down, but in spite of this, there was a remission of the condition lasting for nine months.

Remissions are caused not by an increase in the function of the bone marrow, but by a slowing of the destruction of the blood. During a remission the function of the bone marrow is even less than before. The unknown factor which is responsible for the quick destruction of the crythrocytes is in some wav weakened by the transfusion. In perincious anamia transfusion is neither a substitution nor a stimulation therapy but has a favorable effect upon the greatly increased destruction of the blood. Where this effect is everted is still unknown. Even when there is rapid destruction of erythrocytes in permicious anamia, transfusion may have a favor able effect.

### LYMPH VESSELS AND GLANDS

Minot G R and Isaacs R Lymphoblastoma (Malignant Lymphoma) The Age and Ses Incidence the Duration of the Disease and the Effect of Roentgen Ray and Radium Irradiation and Surgery J Am M Ass 1926 lxxvi 1185 1205

One of the important problems of modern medicine is the group of conditions which have as their most prominent feature progressive enlargement of the lumphoid tissue

Under the general heading of "Ivmphoblastoma" the authors recognize four types of disease I Jmphatic leukæmia, pseudo and aleukæmic lymphatic leukæmia Hodgkin's disease, and lymphosarcoma They review 477 cases of Iymphoblastoma evclud ong typical cases of acute and chronic Ismphatic leukæmia.

Lymphoblastoma occurs more frequently in males thao in females. In the cases reviewed the ratio was 2 rz to x. In both sexes it is most commoo between the twentieth and twenty fourth years of age. The disease appears to be relatively rare in males at puberty. In females it occurs most frequently at puberty and the menopause.

The case reviewed show that age and sex influence the susceptibility of the lymphoid tissue to disease

The average duration of life in all cases was 2.76 vers but in about 10 per cent of both the irradiated and non irradiated cases the disease had been present for six years or longer

Patients treated by Surgery, whether or not they received roentgen ray or radon treatment, had lymphoblastoma on the average for 3 67 years or 111 years longer than the 334 not undergoing operation However, it must be borne in mind that surgical procedures are apt to be undertaken chiefly when lymphoblastoma seems local or has progressed slowly or is not extensive

Among males the chance for a long duration of the disease is definitely greater for those over 34 years and under 63 years of age than for those under 23 years

In females the duration of the disease tends to be

longer than in males
When a group of cases is considered as a whole,

there is no definite evidence that irradiation has distinctly prolonged the duration of lymphoblasto ma but it is undoubtedly of great value because it alleviates the symptoms decreases the size of the lesions and improves the patient's efficiency. In some cases surgery may have a favorable in

In some cases surgery may have a layorable in fluence upon the duration of the condition particularly if it is employed early and thoroughly and is followed by irradiation

JACOB S GROVE M.D.

# SURGICAL TECHNIQUE

#### OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Lillenthal II and Ziegler J M A Study in the Disinfection of the Hands Ann Surg 1026 leggin 841

The authors demonstrated the ineffectiveness of mechanical cleansing of the hands with green soap by using a mixture of lampblack and oil In spite of vigorous and prolonged efforts with green soap and the scrub brush a black line remained under and around the finger nails Other cleansing prepara tions were used with the same results. After the cleansing cultures showed that all areas of the hands except the subungual and penungual tissues were stenle

Shortly after Grossich's technique for sterilization of the skin had been almost universally accepted Libenthal adopted the following technique for

sterilization of the hands

The perfectly dry finger tips are immersed in USP tincture of jodine up to the joint of the ter minal phalant and then allowed to dry for five minutes At the end of that time the usual scrub bing process is carried out

Bacteriological tests have demonstrated that tincture of rodine thus employed will completely

sterrize the spaces about the nails The authors recommend the use of lampblack to perfect the technique of scrubbing

J FRANE DOUGHTY M D

Lewis D Postoperative Treatment Boston M & S J 1926 exciv 913 ant J Surgical Convalescence Brant J Medical Aspects Boston M & S J 1926 exces 920

Lewis reminds us that the postoperative treat ment indicated in surgical cases depends largely upon the character of the operation the manner in which it was performed and the organs or tissues involved. The aim of the surgeon is to restore the patient to health in the best possible manner and as quickly as possible Postoperative treatment bas been reduced markedly by the adoption of a strictly aseptic technique. The pre operative care has much to do with the necessity for postoperative treatment Light food may usually be allowed until a few bours hefore the operation and water given up to half an hour before. As a rule it is not advisable to disturb the regular routine until a short time before the operation

During the operation care should be taken to protect the hack because hackache is a common postoperative complaint Gas pains after operation may be relieved by the introduction of a rect al tube the application of heat to the abdomen

and the administration of opiates The ordinary comiting following gastro intestinal operations is usually relieved by a carefully introduced stomach tube, but the so-called vicious circle which means a mechanical obstruction, may require operative procedures

Two postoperative complications frequently de manding special attention are biccough and acute dilatation of the stomach Hiccough occurs most frequently in cases in which the abdominal viscera and their peritoneal coverings are involved and in cases of brain and spinal cord lesions Fairly frequently it follows operations on the gall bladder and stomach. It is more common in men than in women The type of breathing may be a factor In the author's experience, gastric lavage has given more relief from this complication following gall bladder and stomach operations than any other procedure. In severe cases injection of the phrem-

nerve with alcohol is sometimes necessary

Acute dilatation of the stomach occurs most often after laparotomies particularly operations on th stomach and female pelvic organs. It may be reflex It is often manifested after twenty four or forty eight bours beginning with vomiting and a ense of fullness in the epigastrium. The vomiting be comes more pronounced but is virtually a regurgi tation as if the stomach were nverflowing symptoms are similar to those of peritonitis from perforation and intestinal obstruction. There is a marked and increasing thirst. The urine hecomes scanty and the body apparently dehydrated. The touc manifestations increase at a rapid rate. The amount of fluid removed from the stomach through the tube is greatly in excess of the fluid intake

It is essential to recognize the condition early as nothing can be done for it surgically. The early removal of the fluid in the stomach is of great value Lavage should be continued until the fluid returns clear It is advisable to induce sleep with opiates and to give large quantities of normal salt solu tion

Heus as a postoperative complication is much less frequent today than formerly. It may be paralytic or mechanical As the contents of the obstructed loops of bowel are very toxic, a jeju nostomy is frequently advisable

After the operation, fluids should be given by mouth if possible, as soon as the patient is awake but if there is a contra indication to giving them in this way, they may be administered by the drip method. The drip method is preferable to the inter mittent administration of from 4 to 6 oz every four to six hours To overcome dehydration, fluid may be given intravenously and insulin sub cutaneously If acidosis is present glucose should

be given intravenously and insulin subcutaneously. The patient should be allowed to rest and his diet and normal function restored as early as possible

BRYANT states that so far as convalescence is concerned there is little difference between medical and surgical conditions. It has been considered for many years that the average convalescent period following a surgical operation is about three weeks, but Bryant believes it is six weeks since, after the hospital stay, another three weeks is required to get the patient back to normal He suggests that some arrangement might be made advantageously whereby patients leaving crowded city hospitals could be sent to a camp or con valescent institution in the country where adequate services could be given during the second three weeks period at a cost less than one half the regular hospital rate and to better advantage. The value of such a procedure was shown by experience in the Patients receiving convalescent care in camps following their dismissal from the bospital were in much better physical and mental condition than those who re-entered military life immediately after their dismissal. The usual routine of rapidly discharging patients and returning them to service early necessitated the return to the hospital of from r5 to 20 per cent

Co operation between the medical attendant who refers the case and the surgeon who operates is necessary in order that there may be continuity of

service

In order that the convalescent period may be as brief as possible the patient should be studied care fully before the operation when circumstances will permit. Local infections should be sought for and it possible, remedied. A system of nerve muscle training through proper exercise is of advantage.

It is advisable to watch the diet carefully during this pre-operative period, cutting down the protein and fat intake, increasing the fluids, and giving a normal amount of vitamines, greens, and starches Adequate rest the night before the operation is imperative. The postoperative measures are also

of importance

The pain following operation should be controlled with opiates, but the time that the opiates should be given must not be left to the judgment of the nurse Nausea and vomiting should be combated by the administration of plain or soda water, carbonated drinks, or albumin water

A great deal depends upon the nursing and other care given the first few days after the operation Everything possible should be done to relieve the patient's mind and promote his bodily comfort

HAROLD M CAMP M D

Albano G Hydræmia in Certain Postoperative Syndromes (L hydérmie dans quelques syndromes postoperatoires) J durol méd et chir 1926 xxi, 145

Soon after patients get out of bed following operations on the urmary tract the development of cedema is often noted in the evening. This may be limited to the region of the malleoli, but sometimes extends to the feet or legs. There may be also diurnal oliguna and nocturnal polyuna. The patient is often alarmed by the symptoms, attributing them to lidney disease.

The author was at first of the opinion that this syndrome occurred only after prostatectomy on elderly men, but he has seen it also after hysterectomy by the Wertheim method and has come to the conclusion that it is quite common after surgical operations in general. He believes that the kidneys have nothing to do with it. According to his theory, the aqueous part of the serum collects in the tissues during the day, and during the inght is brought back, and directed to the blood and kidneys by the recumbent position.

To test this theory he examined two series of persons, one series of whom had been operated upon and the other series of whom were normal. Of the subjects who had been operated upon sixteen were treated for prostatism, three for calculus of the bladder, and one for cancer of the bladder, two bad had a nephrectomy, one a nephretomy, and

two a Wertheim hysterectomy Refractometric examinations of the blood were made during the day just after the subject retired and at mid night after he had been lying down for four hours

The results showed that in the postoperative group there was a much higher percentage of cases with a difference of more than o o per cent between the day and the night hydræmia and that the index bad a very evident tendency to descend to below normal at night The author helieves that the latter tendency is due to a disturbance of the water equilibrium between the tissues and the blood which is of a physicochemical nature but the cause of which is unknown He intends to make a further stndy of the refractometric index in the nephrop atbies due to pregnancy and in true nephritis com plicating pregnancy determining the percentage of albumin in the cedematous fluid in the two conditions AUDREY G MORGAN, M D

## ANTISEPTIC SURGERY, TREATMENT OF WOUNDS AND INFECTIONS

Genner V The Influence of Chemical Light Baths on the Bacterleidal Processes in the Blood and the Serum Acta radiol, 1926 v, 172

The observation of Colebrook, Eidinow, and Hill of a bactenidal optimum in rabbit serum two hours after ultraviolet light treatment of the animal led the author to investigate this matter in a series of experiments with certain modifications of technique different from those used by the investigators mentioned In only a few isolated cases did the findings in any way tend to substantiate the theory of an increase in bactericidal power due to the action of light, and even in these the effect was not as pronounced as that reported and not constant even in the same animal. The author therefore concludes

that the effect is not due entirely to the action of light In human erum no variations in the hactericidal nower were observed. Even repeated light baths did not seem to produce any very listing increase

In rabbit serum a very considerable increase in the bactericidal substances was observed to follow repeated experiments on the same animal, but undoubtedly this increase was due only to the repeated blood letting

Parallel experiments with respectively serum and depb inated blood from the same rabbit seemed to show that the bactericidal effect of the serim is considerably tronger than that of the blood

Horsley J S Jr The Intravenous Administration of Gentian Violet and Mercurochrome 220 Soluble in the Treatment of Sepsis 1 segment W Nov / 1926 lin 148

In experiments performed on normal doby Horsley found that the intravenous injection of i per cent gentian violet or mercurochrome in doses up to 7 mgm per kilogram of b) ly weight was not followed by any demonstrable pathological lesion

Of thirty eight clinical ea es in which a 32 to 1 per cent solution of centian violet was administered

fifty one times decided improvement resulted in twenty one In sepsis due to Gram positive staphy lococci in which the lesions were accessible to the blood stream the intravenous use of gentian violet in doses ranging from 3 to , mgm per kilogram of

body weight was often most bereficial

In doses ranging from a to 5 mgm per kilogram of body weight a r per cent aqueous solution of mercurochrome caused improvement in only four of tuelve cases of sepsis. The most marked improve ment was noted in cases of sepsis caused by Gram negative organisms of the colon bacillus group or by the gonocorcus When no reaction occurred there was usually no definite improvement. Nine moderate and two severe reactions occurred in this series of eighteen cases

Doses of less than 3 mgm per kilogram of body weight of either of the dyes were of little value Often several injections at intervals were necessary

The mode of action of these dyes is complex and as yet unexplained Similar results followed in creasing intramuscular injections of milk at intervals and may occur after powerful reactions caused by other than intravenous preparations

J FRANK DOUGHTY M D

# MISCELLANEOUS

## CLINICAL ENTITIES-GENERAL PHYSIO-LOGICAL CONDITIONS

Some Misconceptions Regarding the Relation of Heredity to Cancer and Other Diseases Studies in the Incidence and Inher Itability of Spontaneous Cancer in Mice— Twenty Third Report J Am II 1ss 1926 TTXV1 1500

The attempt to establish the relationship of heredity to disease is handicapped by preconceived ideas and prejudices not based on scientific facts Trouble is caused also by widely divergent inter pretations of terms used in this connection Heredi tary diseases are not contracted in utero. The term 'congenital" is often misinterpreted or misused, frequently being considered synonymous with "hereditary" Intra utenne influences determine congenital conditions but have nothing to do with those that are hereditary. Although the question of inheritance is often considered in connection with certain diseases there have been few adequate studies to prove or disprove the idea scientifically

The author includes in her article three graphs showing respectively how albinos can be derived by the classical method when neither parent nor any of the four grandparents were albino, how blue eyed individuals are readily obtained when neither parent nor any of the four grandparents were blue eyed and how cancerous individuals can be oh tained by the classical method when neither parent nor any of the four grandparents had cancer. This was accomplished by mating a hybrid and a domi nant type in both maternal and paternal grand parents and then mating the two hybrid types to produce the recessive type. The author's studies on cancer date back to 1911 Previous to that time, nearly all studies on animal cancer were carried on through the use of grafted cancers

Reference is made to the work of Fibiger, Bullock and Curtis, and Yamagiwa which, according to the author, do not oppose the fact of cancer inheritance

Another obstacle preventing the establishment of the facts of cancer heredity is the idea that since human matings cannot he controlled similarly to those of laboratory animals, the demonstrated facts of heredity do not apply to the human species and may therefore be categorically dismis ed Valuable scientific data along this line might he obtained if it were possible to establish permanent records of periodical examinations of every living person and accurate autopsy findings of all of the dead of three generations Such data would include matings of double cancerous parentage, double non cancerous parentage, non cancer with hybrid carrier and can cer with hybrid carrier All ammal experimentation in connection with the study of cancer should be made with carefully conducted biological controls

It is evident that a cancer resistant mechanism is present in some members of every species. This is manifested by the fact that spontaneous cancers do not arise in every individual in the human family or among lower animals even though they may hie under the same conditions and are subjected to the same treatment

In conclusion the author says "The scientific method of procedure for those who cannot accept the evolutionary evidence is not categorically to deny what they cannot disprove and what has indisputably been found true by many workers, but rather to hegin the measures which inevitably must produce scientific data for the investigation of he redity in man ' HAROLD M CAMP M D

Warren S L and Pearse H E The Repeated Inoculations of Animals with So Called Can cer Organisms ' Am J M Sc 1926 clxx1 820

Two hundred and forty one mice of a strain susceptible to mouse cancer inoculations but in which spontaneous tumors were very rare were given at weekly intervals intracutaneous injections of either the micrococcus of Nuzum or diphtheroids and micrococci obtained from human breast can cers The inoculations were continued until the

animal died or for four months At the end of four months only fifty mice remained alive. Most of the others had died of septicæmia. The surviving fifty mice were observed for two months longer, or for a total of six months

Ulcerations of the skin which healed readily occurred with great regularity but none of the animals except one which developed a spontaneous tumor of the liver showed any evidence of a neo plastic growth

Four rabbits which received weekly injections of both diphtberoids and micrococci for from three to five months showed no signs of malignant disease at

the end of six months

The authors conclude that there was no evidence that any of the organisms used play a prominent role in the etiology of cancer but an indirect role is possible J FRANK DOLGHTY M D

Lynch k VI The Pathological Diagnosis of Cancer South M J 1926 xiv 284
Bloodgood J C The Prevention Diagnosis and

Treatment of Cancer in Its Earliest Stages South W J 1926 xix 87 Horsley J S Modern Tendencies in the Treat

ment of Cancer South M J 19 6 TLX 202

LYNCH The diagnosis of a tumor should be arrived at by consultation between the surgeon and the pathologist. It should not be made by the surgeon alone unless he is a qualified tissue pathol ogist A common erroneous helief is that the malig nant cell has a characteristic appearance. If this were true there would be no reason to confuse inflammatory growths with neoplastic growths or henign tumors with malignant tumors. The mo t difficult phase of the problem hes in the horderline cases in which chronically inflamed tissue does or does not pass into neoplastic growth. Most cured sarcomata and cancers were only inflammatory growths in which the distortion of the structures was so pronounced as to lead to the mistake in diagnosis Every section of a tumor should be carefully studied Frequently the risk of a second operation is pref erable to that attending a quick frozen section diagnosis

The exact differentiation of types of maingnancy is necessary not only for purposes of study, but immediately for purposes of treatment. The grading of malignancy is at be t anatomical but is of some value especially it the site of origin of the tumor is known. In biopsy a suitable specimen must be obtained and all parts of the section care

fully examined

Biooncoon Cancer never begins in a bealthy spot on the skin. The larty should be taught that such skin lesions as moles watts early areas and uters are potentially dangerous and should be care fully watched. It such areas do not heal they should be excised with a sufficient margin with a fuffe or eautery. Biopsy: never necessary before operation unless the lerion is large and its complete removal would cause mutilation. Intercancer of the skin is an unnecessary diclassed us to insorance and dirt

Cause of cancer of the mouth has and tongue are tobacco mriation durty teeth faulty dentures and neglected poerrhora. Tobacco the most important cause produces first a leucoplakin. Cancer of the oral cavity is a preventable disease and mild disappear when the lasty are taught to seek at examination the moment a sore spot on " or life tongue or checks is noticed to be a configured to the size of the configured to the large cavity it readed surgically and a resoft the rought which cavity it treated surgically and a resoft the rought when the size of the size o

" more d d. Les vis of the base of the fire to treat. In early cases are en is a safer procedure than

c'at resect on a done as a routine aver of the livert lp cervit may present no symptoms as passed the stage of operability of fax vable only when the condition als. There is still a difference of chether radiation or hysterectomy final results.

the breast early recognition and are will improve the final results are obtained in less than to per In the stomach the charces of overlooking a cancer of the right half of the organ in the operable and curative stage are very slight if a detailed examination is made, but a cancer in the cardiac

half may produce no symptom until it is inoperable. These has been a greater improvement in the results obtained in cancer of the colon than those obtained in cancer of the stomach. Cancers in the right colon come under observation later than those of the left colon because the liquid contents of the right colon can pass through the neoplastic casal without blocking it while solid faces in the left colon are obstructed more clasify. I my examina tion of the colon has been of great value in revesing the early diagnosis.

Cancer of the rectum and lower sigmoid can be felt and can also be seen by protoscopic examination. The technique of resection and anastomosis of the

colon is a fairly uniform procedure

Horstey Good end results from operations for cancer depend upon a knowledge of the proper surgical technique and of the histological type and extent of the malignancy

Though Coley's bacterial towns eem to bave cured a few cases of apparently hopeless saccoma the hypothesis that the cause of all cancer is hacterial

bas no foundation in fact

In recent years the prophylactic treatment of cancer has been greatly emphasized Undoubtedly this will be heneficial in cancers occurring in regions of the body open to inspection. The removal of causes of irritation such as a sharp tooth and the even ion of warts or moles especially those which are deeply pigmented series to eliminate potential cancer.

That a certain percentage of cancers of the stomach arise on a basis of apparently being peptic ulcers seems generally conceded hut there is considerable divergence of opinion as to the percentage beging cancers that so ongonate Extended to the percentage of pastire ulcer is therefore a prophylactic

treatment for cancer of the stomach

We must recogn e that while cancer is organily local and early extrsion will effect a cut in a large percentage of cases the malignancy is sometimes or great that by the time the disease becomes crudent any form of eradication is practically hope less. Fortunately, cancers of the latter type constitute probabily has than a port cent of all cancers.

Dissection with the thermal or electric cautery or immediate cautery and the raw surfaces rade by kind, dissection is of great importance. The thermo cautery or electric cautery not only destroys the malginant cells that he in its course but to some extent seals the lymphatics and small blood reside that may later absorb any cancer cells left behind.

The influence of irradiation by radium or most gen ray upon cancerous growths in difficult to evaluate. The majority of radiologists have found that while there are many limitations to this therapy irradiation is of considerable value. No surgeon can accomplish the best work in the treatment of

malignancy unless in many instances he combines with the surgical technique the use of radium or the skillful application of roentgen ray therapy by a competent radiologist Radiology seems most successful in the cellular malignant tumors, such as lymphosarcoma, in which excision is futile

As normal tissue has an inhibiting influence upon basal cell cancer, tissue from a distance bas been applied over the raw surface left by the excision of an intractable basal cell cancer Recently ten cases so treated were reported. In all of them the cancer was extensive and had resisted treatment In several of them, operation and irradiation with radium and the roentgen ray had been tried without avail In five, there has been no recurrence In those in which a recurrence developed, it never appeared in the flap or along its margin. It is po sible that eventually the resistance of the flap to the cancer may break down, but so far, in all of these cases, it seems to hold back the neoplasm CYRIL J GLASPEL, M D

## GENERAL BACTERIAL, PROTOZOAN, AND PARASITIC INFECTIONS

Chlevitz O General Light Treatment in Surgical Tuberculosis Acta radiol 1026 v 143 Malstrom V Some Experiences in Connection with Light Treatment in Cases of Surgical Tuberculosis Acta radiol 1926 v 153

CHIEVITZ reviews the indications which have been accepted at the Finsen Institute in Copenhagen for the treatment of surgical tuberculosis. As a sule the treatment is conservative and includes light baths but in cases of tuberculosis of the knee in adults there is a tendency to advocate early resection

MALSTROM states that in surgical tuberculosis he has employed light treatment combined with sana torium care, surgical and orthopedic measures and occasionally \ ray treatment He gives a few case histories to show what may be accomplished by this combined procedure

During the early part of the treatment, signs of reaction are often noticed in the tuberculous foci When this is the case caution is necessary Con trary to a rather widespread helief, pulmonary tuberculosis and fever are not contra indications to light treatment Every case of tuberculosis should be given general treatment including light treat ment, but it should be left to the surgeon to deter mine whether surgical and orthopedic measures are advisable in addition

In conclusion the author states that a scientific investigation of the action of the light hath is greatly to be desired

Stedamgrotzky The Roentgen Ray Treatment of Surgical Tuberculosis (Zur Roentgenbehandlung chirurgischer Tuberkulose) Arch f klin Chir, 10 6 CYXXIV 114

In the Charite Berlin, considerably larger roent en ray doses are employed in the treatment of lymphatic tuberculosis than in other institutions However in a small number of cases-those with persistent fistula- the use of small doses is necessary. The treatment is not confined to the small areas containing the diseased glands all of the surround ing tissues are irradiated

Since April 1926, about 600 cases have been treated Of these, 85 per cent were cured 145 per cent greatly improved and 05 per cent uninfluenced In contrast to the large number of cases of lymphatic tuberculous only 130 cases of other types of surgical tuberculosis were treated with the roentgen ray

Roentgen ray treatment is the treatment of choice for spina ventosa as well as for all postopera tive tuberculous fistulæ In tuberculosis of small cancellous bones and small joints, roentgen ray irradiation is of great aid in combating the disease Tuberculosis of the larger joints is in general unsuited to roentgen treatment VALENTIN (Z)

# BIBLIOGRAPHY of CURRENT LITERATURE

NOTE - THE BOLD FACE FIGURES IN BRACKETS AT THE RIGHT OF A REFERENCE INDICATE THE PAGE OF THIS ISSUE ON WEICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

## SURGERY OF THE HEAD AND NECK

#### Head

A case of head injury E UNDERHILL J Roy Army Med Corps Lond 1926 xlvn 63 Fracture of the vault with hamorrhage from the middle

meningeal artery J CHIORRINI and L BISQUETT Boll Soc de cirug de Chile 1926 iv 46

Discu sion on fracture of the base of the skull and the ear nose and throat surgeon G J JENRINS SIR C
BALLANCE S Scott A R TWEEDIE and others Proc
Roy Soc Med Lond 1926 xix Sect Otol 9 [361] Fracture of the bones about the nose C CORTES Bol

Soc de cirug de Chile 19 6 iv 5

asymmetry of the mandible from unilateral hyper trophy A (RICA and L MEISELS Ann Surg ro26 [362]

lvxxiii 755 [362]
Bilateral irreducible luxation of the lower raw reduc tion after resection of the two meniors J Partr Bull et mem Soc nat de chir 1026 lu s 4

Lighty four cases of maxillofacial war surgery SPICE VITAL DE PERSON VILLIERE and ROLVILLOIS Bull et

m m Soc nat de chir 19 6 la oa The use of osteopens teal grafts in the treatment of

losses of substance in the inferior maxilla MAUCLAIRE Bull et mem 'oc nat de chir 1926 lu 486 Four pseu larthre es of the inferior maxilla due to wat

wound treated by osteoperiosteal grafts H ROUVILLOIS and by RCHER Bull et mem Soc nat de chir 1026 lu The pro thesis used after hemiresection of the lower jaw

for mant cell tumor results after thirteen years. HUGUIER and Rfal I aris chir 19 6 xviii 117
Report of a case of chronic phosphorus poisoning

(phossy may) ( H Wells Med Clin N Am 1026 T A case of total necro is of the mandible due to acute

infectious osteomyelitis O Macaron Ann ital di chir 1926 v 158 Thrombosis of intracranial sinuses C W RUTHERFORD

J Indiana State M Ass , 1926 xix, 264

Cavernous sinus thrombosis report of a case D C. MONTGOMERY South M J 1926 XIX 566 Bilateral jugular resection for bilateral sigmoid sinus

thrombosis (otitic) report of cases H HASTINGS Arch Otolaryngol 1926 sv 58
Varicose ectasia of the lateral sinus Breganzatto

Arch internat de laryngol 1026 xxxii 687 Osterus fibrosa with ethmoidosphenoidal localization E V Segura and H Zubizarreta Semana med 1026

XXXIII 2321 Osteomyelitis invading the bones of the cramum after intervention for suppuration of the frontal sinus R GAILLAND and P L MOUNTER Lyon chir 1926 XXIII 334 A case of mysasis of the temporal bone E A Surron

I Roy Army Med Corps Lond, 2026 xlvu 6r

Surgical removal and pathological study of a massive squamous-cell epithelioma associated with an angioma of the scalp D S I ULFORD and A W ADSON Surg Gynec. & Obst 1926 xlu 846 Deformities of the face A SCHUELLER Rev med de

Barcelona 1926 18 459
Microtia and cramofacial dystrophy E LEBLANC

Arch internat de laryngol 1926 xxxii 520 Early treatment of facial injuries L W Jourson U S

Naval Af Bull 1926 XXIV 508 Autoplasty with a tubular flap in a case of severe mu

tilation of the face resulting from burns G Works and P Moure Bull et mem Soc nat de chir 1926 lit 707 Abscess of the parotid gland following acute membra nous tonsillitis A LOBELL Med J & Rec 1926 exxiv 79 Submaxillary gland cyst H M CLUTE Surg Clin N

Am 1926 11 579 Epithelioma of the face and buccal cavity I O WETZEL N York State I M 1926 xxvi 634

Observations on congenital defects of lips and mouth L W Frank Kentucky M J 1926 xxiv 331
Acavernous hamangioma of the upper lip A Tavares

Ann danat path 1926 m 147 Radio active substances their therapeutic uses and apdications radium treatment of carcinoma of the lower up J Mein Radiology 1926 vn 51

#### Еуе

Three friends who made ophthalmic history Bowman Donders and von Graefe V J Schwerz Am J Opbth 1926 3 5 1x 524 Some suggested lines of chincal research B GRAVES

Arch Ophth 1926 lv 319 The posterior insertion of the muscles of the orbit A V

CORO Pev med de Barcelona 1926 ni 565 Operation for paralytic strabisrous M L HEPBURN Proc Roy Soc Med Lond 1926 xix Sect. Ophth 23

The internist and the ophthalmoscope H A HOUGHTON Boston M & S J 1926 Cxcv 31 The sht lamp in ophthalmology R I Lloyd I Oohth

Otol & Laryngol 1926 XXX 254 The detection of malingerers E TOLROEK Arch

Ophth to 6 ly 338 The significance of failing vision J R ANDERSON Med J Australia 1926 11 71

The determination of phorias by prolonged monocular occlusion C A YOUNG Virginia M Month 1926 lin

\*33 Telescopic spectacles and magnifiers R k Dails Texas State J M 1926, xxu 187

Periscopic lenses A S PERCIVAL Brit I Ophth The normal reserve accommodation in presbyonia F

J Statages Arch Ophth 1026 ly 370

A preliminary report regarding a device to be used in lateral homonymous hemianopsia A Wiener Arch Ophth , 1926, lv 362

Report of a case of injury to both eyes with diminished ocular tension H BALDAUF J Ophth Otol & Laryngol

19 6 xxx, 2 8

The treatment of ophthalmic traumata E B HECKEL

Atlantic M J 1926 TXIX 697

Ocular disea e due to focal infection J E WEEKS Kansas City Clin Soc Month Bull 19 6 n 2
The eye and the teeth M WIENER Dental Cosmos

1926, lxviii 671

Phototherapeutic treatment of some ocular affections A CASTRESANA Siglo med , 1926, lexiii 509

Injuries to the conjunctiva by spines from the common burdock C E MUNA Am J Ophth 1926 3 s 1x 507 Luminal poisoning with conjunctival residue J H Roth Am J Ophth 1926 3.5 ix 533

A case of subconjunctival echinococcus G R HARE

Arch Ophth 1926 lv 367 Sympathetic ophthalmia O WERNICKE Semana med,

1926 YXXIU 1383 Miliary tuberculosis of the choroid J N GREEAR, Jr

Virginia M Month 1926, liu, "35 Interstitual keratitus luetica T H Mantes Atlantic M J 1926 xxix 700
The influence of protein therapy on the experimental

staphylococcic infection of the rabbit's cornea B W Kry Am J Ophth 1926 35 1x, 351
Traumatic indoduslysis, spontaneous recovery 13631

DUANE Am J Ophth 1926 3 s 17 531
An iris-inclusion complication H HERBERT Brit J

Ophth 1026 x 380 Atypical colohoma of the iris W A KHAN Brit I

Ophth , 1926 7 389 A case of severe cyclitis M W B OLIVER Proc Roy

Soc Med, Lond, 19 6 xix, Sect Ophth 13 Reports of two unusual cataract cases Atlantic M J 1926, xxix, 690

The pedigree of lamellar cataract W A KHAN Brit J Ophth 10 6 x 387

An interesting example of hereditary dislocation of the lens occurring in four successive generations The intracapsular method of cataract extraction—with report of cases W Pattersov Virginia M Month

1926 lm 230

Massive exudative retinitis and angiomatosis retinæ D ALPERIN Am J Ophth, 1926 3 s ix 532
Traumatic retinal detachment, hypertension part of

visual field retained H BEARD Am I Ophth, 1926 3 S IX 510

A congenital tumor mass at the edge of the optic disk

A M YUDKIN Arch Ophth, 1926, Iv 364
A case of filament in the macula F A WILLIAMSON NOBLE and M G PEARSON Proc Roy Soc Med , Lond 1026, XIX Sect Ophth 14

Familial juvenile degeneration of the macula J S

STEYN Brit J Ophth 1926 \* 391

Bilateral optic neuritis from severe catarrhal rhino-pharyngitis M J Barrenechea Bol Soc de cruig de

Chile 1926 1v, 61

A case of retrobulbar optic neuritis in a child of 10 years cured by trephination of the sphenoidal sinus Rouger and LEMARIEZ Arch internat de laryngol 1926 xxxii 683 The treatment and cure of blindness due to retrobulbar

neuritis A G Dampier Bennett Med Press 1926 n S CTXII I

Prolonged miosis for the control of increased intra-ocular tension with remarks on the preparation of solutions of the motics G E DE SCHWEINITZ and B F BYER Therap Gaz, 1926 1 469

Congenital glaucoma P G DOVNE Proc Roy Soc Med Lond 1926 xix Sect Study Dis Child 63

The treatment of glaucoma C ASCHER Polichin Rome 1926, xxxiii sez prat 757 Enucleation of the eyeball under local anæsthesia F

H RODIN Am J Ophth 1926, 3 s ix 517

#### Ear

Auditory sensibility V Risón Semana méd 19 6, XXXIII I2IQ

Comparison of the results made with two types of audi ometer H FLETCHER Arch Otolaryngol 1926 IV 51 The medicolegal importance of microscopic investigation of the temporal hone C A HEATLY Arch Otolaryngol,

1926, IV 28 Presentation of microscopical sections of various patho logical conditions of the ear F A Bringert Laryngos

cope 1920 XXXVI 467 Otological complications of hasal skull fracture C F

YERGER Arch Otolaryngol 19 6, 1v 35

Hæmorrbagic types of ear disease occurring during epidemics of influenza Six W Million Proc Roy Soc Med Lond 1926, vix Sect Otol, 21 An instrument to facilitate eustachian tube catheteriza tion and treatment L k Pitman Laryngoscope, 1026

XXXV1 525 The present status of surgery of the bones of the ear I

MARTIN Ars med 1926 n 133 Cholesteatoma case reports G B TRIBLE and A P

Timbers Laryngoscope, 19 6 xxxvi, 512
Septicamia of otitic origin F E Hasix South M

1026, TIX 570 Mucosus othes report of a case C B Hollis J Am Inst Homeop 1926 xix 619

A review lecture on the anatomy of the ear and otitis media as delivered to the students of the New York Homeopathic Medical College and Flower Hospital L E HETRICE J Ophth, Otol & laryngol 1926 xxx 240

Pregraments on the saccus endolymphaticus in the rah to J M Nally J Laryngol & Otol 1926 xli 349
[364] Sequestrum of the semicircular canals

DONALD Proc Roy Soc Med Lond 1926 xix Sect Otol, Report of a case of neurolabyrinthitis with atypical functional hearing tests W C Ivins J Ophth, Otol &

Laryngol 1026 XXX 230 An apparatus for the study of nystagmus L BALDEN

WECK Arch internat de laryngol 1026 xxxxx 676 On the influence of blood pressure alterations on experi

mental vestibular nystagmus Y MEURMAN J Laryngol & Otol . 1026 xl1 421 A case of cystic swelling behind the ear, for diagnosis D W HALL Proc Roy Soc Med Lond, 1926, x1x,

Sect Otol 34 Mastorditis and its complications W M MUNBY and

R E Jowert But M J 1926 H 111

Six cases of definite mastoiditis in which the middle ear was definitely not affected B E HEMPSTEAD Ann Otol

Rhmol & Latyngol, 1926 xxxv 517
A case of acute mastoiditis T J FAULDER Proc Roy
Soc Med, Lond 1926 xiv Sect Otol 32
The treatment of acute mastoiditis J T CREBBIN

Texas State J M 1926 XXII 182 A skin periosteal flap for the radical mastoid D C

A SEM PEROSICAL Map 101 & Laryngol , 1926 XXXV 442
[365]

Crafts of bone cartilage and fat in otolaryngology from the standpoint of experimental and chinical biology BOURAR Arch internat de laryngol, 1920 xxxii 547

Postoperative complications in mastorditis simulating sigmoid sinus thrombosis O J Drxov Kansas City Clin Soc Month Bull 1926 11 9

## Nose and Sinuses A histological and pathological study of three cases of

rhinophyma operated upon by the abrasion method LP Pmayza and FR Ruzz Rev med Lat Am 1926 11 1285

Foreign bodies in the nose D GUTHRIC I LATVILOI & Otol 19 6 xh 454

Masal obstruction in early life J W BEYER J Olla homa State M Ass 1926 xix 183

The nasal septum E L ARMSTRONG Minnesota Med 1020 17 302

Report of a case with an unusual condition involving the nasal septum E S HALLINGER Laryngoscope 1926

TXX11 500 The pathogenesis of polyps of the septum the polyp of leishmoniasis P Mangabetra Albernaz Arch interost de latyngol 1926 xxx11 139

DI CLESSION ON ALTOPHIC PRINTES W. M. MOLLISON SIR St. C. THOMSON J. F. O. MALLEY W. STUART LOW and others Pro. Roy Soc. Med. Lond. 1926 ux. Sect. Laryn, ol 33

A nasal ointment syringe J B H WARING Laryingo

scope 1920 TTXVI 523

The treatment of neoplasms in otorhinolaryngology by radium and radium therapy with reference to eight ob servations H Prony Arch internat de laryngol 1026 XXX1 538 Radium in the treatment of tumors of the nasopharynx

SARGNOV Arch internat delaryngol 1926 xxxu 38 [366] Scarlet lever following nose and throat operations B
R LOVETT J Am M lss 1926 exxvn 96
Paranasal simusitis in injants and in young children P

C JEANS Am J Di Child 1920 xxxii 40

Diseases of the nasal accessory inuses co existing with intracranial conditions case reports. A Lonett Laryn. goscope to 6 xxxvi to-Displacement irrigation of the nasal sinuses a new pro

cedure in diagnosis and conservative treatment A W PROETZ Arch Otolaryngol 1926 IV 1

Stereoroentgenography as a method of exploring the ctantal sinu es H P CHATELLIER and A DARIATY Arch internat de laryngol 1926 xxxii 9 An ethmofrontal mucocele with extensive invasion of the

orbit REVERCHON and TSIROS Arch internat de laryn gal tazá vezu tás Suppuration in the ethmoidal and sphenoidal sinuses

cavernous sinus thrombosis death autopsy A L Turner

and F E RELIGIOS J Laryngol & Otol 19 6 zh 442 An aid to the radiography of the maxillary antrum B McKelvie Brit M J 1926 ii 58
Iodized oil (lipiodol) in otolaryngological diagnosis—

opaque injection study of thirty five maxillary sinuses R H FRASER J Vichigan State M Soc 1926 VV 2,0 The surgical treatment of acute suppurative paranasal sinusitis J J Silea J Am M Ass 1926 Lexen 162

#### Mouth

The circulation of lymph in the dentinal tubules with some observations on the metabolism of the dentine E W FISH Proc Roy Soc Med Lond 1926 xix Sect Odontol sa

The relation between focal infection from the teeth and internal roedicine A E TAUSSIC Dental Cosmos 1026

The value of the dental radiograph in detecting chronic perapical infection R L HADEN Illinois M I 1026

Some systemic expressions of dental infections W. A. PRICE Ann Clin Med 1926 IV 943 The closure of congenital clefts of the hard palate A

CAMPBELL Brit J Surg 1976 vin 715 Manifestations of systemic disease in the mouth H W

Sorta Dental Cosmos 1925 Ivviii 670 Glossoptosis and vagotony Latevel Lavastive Robin and FILDERMAN Bull et mem Soc med d hop de Par

1026 tin 834 Buccal papillomata cured with magnesium chloride A

A FERNANDEZ and A BIGATTI Pev med Lat Am 1026 XI 1610 Noma with perforation of the check after mercury in

jections fixation of the jaw multiple operations and pros thesis Matchard: and Darcissac Bull et mem Soc nat de chur 1926 lu 253

Leukoplakia buccalis report of a case J U REWES Urol & Cutan Rev 1926 XXX 305 Comments on the use of radium for intra-oral cancer

A SOLLAND Arch Clin Cancer Research 19 6 11 55 The technique of the use of removable radon seeds in carcinoma of the tongue J MLIR Chicago M Rec. 19 6

XILU 221 The danger and lailure of anasthesia by the palatine posterior canal B SELOULITCH Arch internat de laryn col 1026 XXXII 534

#### Pharynx

Verther study of antimony in Vincent's infections T L Daiscott. Virginia M Month 1976 his 248 A mixed salvary tumor in the tonsillar region A O Fageoux Arch Otolaryngol 1926 iv 14

Examination of the blood in the removal of the tonsila and adenoids A M Sukraz Rev med Lat Am 1926

**11 1606** The radical cure of peritonsillar abscess H L Birm inn Otol Rhinol & laryngol 1926 xxxv 429 [368]

#### Neck

Lateral cervical fixtulæ R KRAMER Laryngoscope 1026 TEXUS 517

Chronic tetany in adults and the transplantation of human parathyroid by the method of Voronoff C FRUGONT V SCIMONE and A COMOLLI Presse med Par

1926 EXXIV 355
Aberrant thyroids J R Paul Mantic M J 1916

Studies of the thyroid apparatus \\XXVI The rôle of the thyroid apparatus in the growth of the pancreas I S Hammerr Endocrinology, 1920 x 248
Studies of the thyroid apparatus XXX The rôle of

the thyroid apparatus in the growth of the adrenals F

S Hasmerr Lindocrinology 1926 x 237
The diagnostic value of the Kottmann reaction in thyroid dysfunctions I KATAYAMA Am J M Sc 19 6

civu & Futernal factors causing variable results in the Kottmann

reaction J Kasanin and E Knapp Arch Int Med 10 6 XXXVIII 120

The clinical ignificance of the respiratory metabolic rate E P POULTON II GARDINER HILL C M WILSON R D LARRENCE and R HILTON Proc Roy Soc Med Lond ro 6 xix Sect Med 20

Histological changes in the thyroid in animals miected with extract of corpus luteum L PLECTONI Riv ital di

ginec 1926 IV 273
Goiter P B McLAUGHLIN Nebraska State M J 19 6 11 260

A gotter résumé W L FINTON and A M SHAEFFER

J Michigan State M Soc 1926 vxv 338 A typical goiter S V Van Meter Chicago M Rec

19 6 xlvii or The relationship of endemic gotter to certain potential foci of infection R OLESEN and N TAYLOR Chicago M Rec 1926 xlv11 05

The genesis of intralaryngotracheal struma R PAMPERL Ztschr f Hals Nasen u Öhrenheilk 19 6 viv 173
The diagnosis of hyperthyroidism T k Littlejoiin

I South Carolina M Ass 10 6 vxu 144

Hyperthyroidism followed by hypothyroidism I L FALLEY Med Clin N Am 1926 x 75

Progressive lipodystrophy and hyperthyroidism G MARANOV and C B Soler Rev med de Barcelona 1926

111 581 The thyroid gland in relation to toxic goiter

GRAHAM Radiology 19 6 vi 377 [368]

The basal metabolism in the diagnosis of evophthalmic gotter G Bosco Rev med Lat Am 1926 x1 1554

Exophthalmic gotter in childhood H F HELMHOLZ J Am M Ass 1926 lxxxvii 157

Rapid and considerable amelioration under the influence of suggestion in a serious case of Basedow's disease with in tractable vomiting and cachevia A Lemierre and P N DESCHAMPS Bull et mêm Soc med d hôp de Par 1026 xhi 848

The medical aspects of hyperthyroid conditions O P KIMBALL Ann Clin Med, 10 6 iv 000

The importance of medical supervision in hyperthyroi

dism F Kose Med Clin A Am 1926 v 241 The indications for iodine in the treatment of Basedow's disease C Flandin Bull et mém Soc med d hép de Par 1926 du, 761

The treatment of Basedow's disease with iodine M LABBÉ Bull et mem Soc med d hop de Par 1926 vln

The value of rodine in the surgical treatment of exoph thalmic goiter E P RICHARDSON Boston M & S J

19 6 CXCIV 1066 Medical management of patients before operation for hyperthyroidism H M CLUTE and R L MASON Surg Clin N Am 10 6 v1 583

The effect of iodine on the pathology of evophthalmic goiter R B Cattell Surg Clin N Am , 19 6, v1 597

The management of toxic goiter F H Lahex Surg Chn N Am 19 6 v1 603

The surgical treatment of gotter G W CRILE Radiol ogy 1926 v1 365 [369] Follow up of patients operated upon for Basedow's dis

ease A Ladwig Arch f klin Chir 1925 cxxxvu, 367 13691

Thyroid grafts G BOATTINI Arch ital di chir, 1926 [370] Hyperthyroidism persisting after thyroidectomy the

necessity for postoperative examinations in toric goiters H M CLUTE Surg Clin N Am 19 6 v1 691 Gotter surgery a series of consecutive thyroidectomies

L MURPHY Minnesota Med 1026 1x 369
Seven thyroidectomies G F Cottle U S Naval M

Bull 1926 xxiv 557

Recurrent carcinoma of the thyroid with involvement of the trachea and general metastasis A Solland Arch Clin Cancer Research, 19 6 u 51

Aphonia the report of three cases W R WATSON Vrch Otolaryngol 10 6 tv 46

A Lewpie doll in the larynx G TUCKER Med Clin N Am 1926 x 1 1

Stenosis of the larynx G TUCKER Med Chn N Am, 1026 X 120 Chronic postdiphtheritic laryngeal stenosis G Tucker

Med Clin N Am 1926 v 1 7

The importance of early diagnosis and treatment of laryngeal tuberculosis F R SPENCER J Am M Ass. 1926 EXXXVII 216 Tuberculosis of the laryny treatment with the galvano

cautery indications results technique Six Sr C THOUSON Lancet 1926 ccx 1084 Papilloma of the larynx with complete aphonia of eleven years duration J M BAYTER J Laryngol &

Otol 1926 th 458 Papillomata of the larynx G Tucker Med Clin

V Am 1926 x 124 125 1 6 Enchondromata of the larynx J J Woodburn Med J Australia 1926 1 645 [370]

The early diagnosis of malignant disease of the larynx P R W DE SANTI Med Press 1926 ns CTXII -7

Cancer of the larynx St C THOUSON Arch Internat de laryngol 1926 txx11 513 Surgical diathermy in lary ngology G B New Arch

Otolaryngol 1026 ni 301 [371]

# SURGERY OF THE NERVOUS SYSTEM

# Brain and Its Coverings Cranial Nerves

The pressure of the cerebrospinal fluid and cramal traumatisms Bravo and Dfaz Canapo Vich de med cirug y especial 1926 vii 393

Residual syndrome in cranial traumatisms D S R HERRERA Siglo méd 1926, lxxiii 485

Diplegia associated with diabetes insipidus in cranial traumatisms Worms and Brechot Bull et mem Soc

nat de chir, 1926 lu 6 3 Puncture wounds of the cerebellum injury of the cere bellum by a foreign body entering through the jugular foramen with removal and recovery H L Foss Arch

Surg 19 6 XIII 43 A posterior encephalocele appearing during labor operation thirteen hours after delivery recovery from operation death from hydrocephalus in the fourth month

G FERRY and C LENORMANT Bull et mêm Soc nat de char 1926 in 490

The practical application of encephalography Fraevall Brit J Radiol 1928 xxx1 26.4

The syndrome of intracranial hypertension without signs of localization and without a meningeal reaction, recovery Can Solomon and RACHET Bull et mem Soc méd d h p de Par 1926 vln 958 Brain diseases J W Shuman Med J & Rec 19 6

CXXIV 75

Intradural complications of aural and nasal origin W P EAGLETON Arch Otolaryngol 1926 IV 69 Epidemic encephalitis with severe involvement of the

spinal cord J A WRILHT Brit M J 1926 ii 115 Undateral auditory hallucinations and hemianopsic visual hallucinations of cerebrocortical origin G R Lafora Siglo méd 1926 lavin 391

Four cases of ohvopontocerebellar atrophy giving a history of heredity with three autopsies W Kenlerk South M J 1926 xix 518

Two cases of central pontine hamorrhage A M CRAW

FORD Laucet 1926 CCX1 173

A case of abscess of the temporal lobe treated and cured by the method of exclusion of the meningeal spaces DUTHERLIET DE LANOTHE Arch internat de laryngol 1026 TXXII 691

A case of otic abscess of the cerebellum REVEL BAR REZIER and DE MARTEL Bull et mem Soc nat de chir 1926 lu 95

Hypophyseal obesity of syphilitic origin E BOULLA

Med Ibera 1926 x 689 A case of diabetes insipidus associated with syphilis of the hypophysis E B First Endocrinology 1920 x 317

The therapeutic indication for the use of anterior pitus tary lobe substance H G BECK Endocrinology 1026 x 327 The efficacy of the substance of the posterior lobe of the

human hypophysis W LAMPE Wien klin Wchnschr A carniopharyngeal pouch cyst ansing from the prtui

tary body operation with recovery R D Moffett Im J Dis Child 1920 xxxii 89 A case of tumor of the hypophysis L Gallardo

Semana med to c xxxiii 1330

Considerations on the surgical treatment of tumors of the hypophysis R LUND Acta chirurg Scand The symptoms of tumors of the body of the corpus

callosum & GUILLAIN and R GARCIN Bull et mem Soc méd d hop de Par 1926 xln 859

Primary and secondary malignant tumors of the brain and cord M Neustlebter Arch Chn Cancer Re

search 1926 II 31 A case of cerebral tumor treated by radiotherapy

COYON SOLOMON and WILLEARN Bull et mem Soc méd d h'p de Par 1926 xlu 935

The histology of the pureal organ P R Santoraya Siglo med 19 6 laxiii 4 0 Spontaneous meningest harmorrhage with a report of seven cases E M HAMMES Minnesota Med 1026 m

The diagnosi of meningitis G Maranón Med Ibera 1920 X 9

A case of meningitis due to ascandes A VALERIO Brazil med 1026 xl 300 A ca e of meningitis due to the micrococcus melitensis

DESAGE PELLERIN and VINERTA Bull et mem Soc méd d hôp de Par 19 6 xhi 8,2 Meningococcus meningitis-report of an unusual case

J W BRICE and M FLENNER Arch Pediat 1926 xlın 4/3 Sporadic mempgococcus memngitis sequelæ following

specific serum therapy in infancy and early childhood. S MCLEAN and J P CAFFEY J Am M Ass 1926 lexxyn Advanced meningococcus meningitis treatment by com-

bined ventricular cisternal and lumbar punctures M M PEET J Am M Ass 1926 LEXXVI 1818 I neumococcus meningitis treated with Morgenroth's optochin hydrochloude-report of a case with recovery H L RATSOFF and 1 M LITSAL Arch Pediat 1926

xlu 466 The chemotherapy and serum therapy of pneumococcus and streptococcus meningitis J A KOLMER Arch

Otolaryngol 1926 iu 481 13741 The neurology of the trigeminal nerve G A Chiar

PORT Semana méd 1926 XXXIII 1397

Neuralguas of the head with special reference to tri geminal neuralgia and its operative treatment R J LEAR MOVIN Glasgow M J 1926 ns xxiv 22
A method of alcohol injection in trigeminal neuralgia

G DALEIEL Glasgow M J 1926 ns xxiv 15
Two cases of retrogasserian neurotomy M Charox Bull et mem Soc nat de chir 1026 hi 467

Neuralgia of the trifacial nerve of seven years duration relieved by simple intrabuccal resection of 3 cm of the left

lingual nerve persistence of the cure after twenty five months E PHEULPIN and T DE MARTEL Bull et mem Soc nat de chre 1926 hi 92 Otogenic paralysis of the abducens with especial men tion of isolated palsy associated with rintation of the gas

serian ganglion W H Sears Ann Otol Rhinol & Laryngol 1926 xxxv 348

Report of a case of neuritis of the seventh cranial nerve of focal infection type W G SHEMELEY Habneman Month 1926 lx 408

#### Spinal Cord and Its Coverings

The use of lipsodol in the localization of spinal lesions II The local and systemic effects of the mjection of lipiodol into the subarachnoid space F G EBAUGH and H MELLA Am J M Sc 1926 class 117

The results of the roentgen diagnosis of diseases of the spine and spinal cord with the use of iodipin injections H Petren Deutsche med Wehnschr 1926 in 22 1375

A vertebromedullary wound from a shell fragment radiculomedullary lesions late extraction of the projectile end result B DESPLAS and ROBIVEAU Bull et mem Soc nat de chir 1926 lu 498

Anatomicochnical forms of paraplegia due to Pott s disease their evolution and prognosis E SORREL and SORREL DEJERTME Presse med Par 1926 EXXIV 785 Early faminectomy in traumatisms of the spine assocrated with lesions of the spinal cord C PERRET Rev

med de la Susse Rom 1926 vivi 414 453

The report of a case of endothelioma of the spinal pia mater D Vanyloci vich ital di chir 1926 xv 545

#### Peripheral Nerves

Unilateral phrenic paralysis Lapy BRISCOE Lancet toré cent eé

Eight cases of phrenicectors, E. Sergert R. Baum Garrier and F. Border. Bull et mem Soc med d hop de Par 2026 xln 20 13761

#### Sympathetic Nerves

On the amphotropic effects of drugs upon the vegetative nervous system and on their physiological and clinical significances E Barath Am J M Sc 1926 claxii, 107 (Edema of the hand cervical ramisection WERTHEI mer and Corre Lyon chir 1925 xxii 366 Experimental and clinical investigations of the functional

condition of the heart and blood vessels following extirpa tion of the cervicothoracic sympathetic chain T Jonves co and D Ionescu Zischr f d ges exper Med 1926 alvut 216

Angua of the chest and bilateral total cervical sympa thectomy persistence of the crisis resulting cardiac in sufficiency Sicard and Licitrivity Bull et mem Soc mêd d hộp để Par 1926 xhi 1933

Ramisection of the sympathetic in the treatment of nephralgra G Pieri and R Broccio Arch ital di

chir 1926 TV 574

Sterilization of infected wounds and chronic ulcerations hy penartenal sympathectomy R LERICHE and R FON TAINE Bull et mem Soc nat. de chir 19 6 lu 471

## Miscellaneous

The head specialist and a neurological diagnosis V L HART Clin Med to 6 xxxiii 464

Psychic traumata (mental accidents) A E Davis Lancet, 1926 ccvi 11,

The insulation of the nervous system W TROTTER

Lancet 1026 ccx1 10, Bnt M J 1926 11 103 \anthocbromia of the spinal fluid in the newborn C O KOHLBRY Am J Dis Child 19 6 VXXII 58

Phases of neurosyphilis A MYERSON and M YORSHIS Am J Syphilis, 1926, x, 410

First symptoms of neurosyphilis C S BLUEMEL Am

J Syphilis 1926 x 420 Nervous syphilis H V Wildman Jr Am J Syphilis 1026 1 420

Neurosyphilis with especial reference to intraspinal treatment W C Stoner Am J Syphilis 19 6 x, 439
Accidents of lumbar puncture J C Melendro Arch

de med cirug y especial 1926 vii 439 The prophylaxis and treatment of headache and pseudo meningitic accidents which follow lumbar puncture. A Tranck and P Chevallier Bull et mem Soc med d

hôp đe Par 1926 xlu 701

# SURGERY OF THE CHEST

### Chest Wall and Breast

Hypertrophy of the breast A WOLOWELSKY Schweiz

med Wchnschr 1926 lv1 104 A case of cytosteatonecrosis of the cellular adipose tissue

of the hreast diagnosed clinically L Bazy Bull et mem Soc nat de chir, 1926 lu 711

Epithelioma of the hreast in a man Jeanneney and

LACHAPELE J de med de Bordeaux 1926 cm 475 The hacterial flora of cancer of the breast S L WARREN

Am J M Sc, 1926 clxx1 813

The concurrence of tuberculosis and cancer of the breast report of a case L W Surre and R L Masov Surg Gynec & Ohst 19 6 thu 70

Breast cancer metastasis W A COVENTRY Am J Ohst. & Gynec 1926 xii 113

Bony metastasis in the pelvis after operation for car

cinoma of the breast radiotherapy results \ PALUMBO Riforma med 1926 zlu 515 Ulcerating carcinoma of the breast treated by radium

D C L FITZWILLIAMS Proc Roy Soc Med Lond 19 6 xix Sect Surg 15 The relative value of various techniques in the radiation

treatment of carcinoma of the breast as reflected in the statistical analysis of 70r pm atecases with observations as to the general value of radiation G E Pranter and B P Ummany Radiology 1926 vi 493

A two-flap incision for cancer of the hreast R R SMITH Surg, Gynec & Obst 1926 zlin 93

Lymphosarcoma involving both breasts H G Schlet TER and A J BRUECKEN Atlantic M J 19 6 KNX 693
Sarcoma of the left breast D C L FITZWILLIAMS Proc Roy Soc Med Lond 1926 xix Sect Surg 15

Sarcoma of the breast operated upon and remaining cured after five years T ASTÉRIADES and C LENORMANT Bull et mém Soc, nat de chir 1926 lu 488

Symposium on surgery of the breast E J KLOPP A E BILLINGS W F MANGES and I H GIBBOY Atlantic M J 1926 xx1x 5°0 5 2 5°4 526 [378]

## Trachea Lungs and Pleura

Wound of the lung RICHER and SANTA Lyon chir 1026 XXIII 367

The X ray examination of respiratory cavities with iodized oil (lipiodol) J FORESTIER Ann Clin Med 1926 15 860

Roentgenological examination of the lungs with hipsodol (1) in the course of abscess of the lung (2) after extrapleural thoracoplasty J FORESTIER Bull et mém Soc méd d hen de Par 1926 xln 712

The therapeutic action of lipiodol administered intra bronchially in some bronchopulmonary suppurations BONNEN GUÉNARD and DE GRAULY I de med de Bor deaux 1926 ciu 525

Diagnostic preumothoray J J Sincer Ann Clin Med 1926 IV 907

Fatal air embolism at the beginning of intervention in

the establishment of artificial pneumothorax A F LINDBLOM Acta med Scand 19 6 lxm, 301

Pulmonary perforations in the course of artificial pneumothorax F Tone and J TERRASSE Bull et mem

Soc med d hôp de Par 1926 xlu 928

Pulmonary perforations in the course of artificial oneumothorax L BERNARD F COSTE and J VALTIS Bull et mem Soc méd d hôp de Par 1926 xlu 1007 Separation of a pleural adhesion in the course of the fourth year of insuffiction of an artificial pneumothorax Y Pouzis Malègue Bull et mem Soc med d hop de

Par 19 6 xlu 52 3801 Pleural effusion complicating pneumothorsx L S

BURRELL Brit M J, r926 u, 8
Closed tuberculous empyema complicating artificial

pneumothorax its treatment by evacuation and pleural lavage C MAININI Semana med 1926 xxxiii 1300 A case of propneumothorax illustrating the differential diagnosis of acute inflammatory diseases of the chest and abdomen G H Wells Med Chn N Am, 1026 x

A peanut in the left lower lobe bronchus G TUCKER Med Chn A Am 19 6 x, 111

A razor handle in the bronchus G E CAMPBELL I Am M Ass 1926 Ixxxvii 168

Foreign bodies in the air and food passages with case reports of unsuspected foreign bodies E M SEYDELL

J Kansas W Soc 1926 xxv1 220 Non-opaque foreign bodies in the air passages A ray diagnosis and localization W F MANGES Brit

Radiol 1926 TXI, 119 13801 Massive collapse of the lung report of four cases H H TROUT and H M HAYTER Virginia M Month 1026

Massive atelectasis R L Mason Surg Clin N Am,

1926, 11 739 Recent developments in peroral endoscopy æsopbagos-

copy and bronchoscopy for disease report of cases G Ticker Surg Gynec & Obst 1926 dlu, 743 [381] Four new cases of tuberculous pyothorax E Leurer J de méd de Bordeaux, 1926 cm 516

Artificial pneumothorax in pulmonary tuberculosis in children P F ARMAND-DELILLE Med Press, 1926, n s CERU, SI

430

Extrinsic bronchial stenosis relieved by roentgenological e amination after the injection of lipiodol under control of the bronchoscope E RIST P JACOB and A SOULAS Bull et mêm Soc mêd d hôp de Par 1026 vlu 1082 Actinomy cosis of the lungs G TURNER Radiology

1926 vil 39 Hydatid cysts of both lungs Picor Bull et mem Soc

nat de chir 10 6 hi 613 Lung abscess from the medical standpoint R A LERV Am J Roentgenol 1926 TV 407 13321

The toentgen ray diagnosis of lung abscess H & I AN COAST Am J Roentgenol 1926 Xv 410 [382] Bronchoscopic treatment of lung abscess G TLCAER

[382] Am J Roentgenol 1926 xv 419 Surgical aspects of lung abscess G P MULLER Am ] 1382 Roentgenol 10 6 xv 421

Cangrenous abscess of the lung examined by the injection of lipiodol N FIESSINGER and H R OLIVIER Bull et mem 50c med d hop de Par 1926 xlu 603

The treatment of abscess of the lung E A GRAHAV Ann Clin Med 1926 Iv 926

Pulmonary histula for chronic lung abscess C Eggess

Ann Surg 19 6 lexxiv 130 Chronic pulmonary gangrene cured after eight months of collapse therapy P Jacon Bull et mem Soc med d

hcp de Par 1926 the 993 Carcinoma of the bronchus T McCrae Med Clin

Am 196 x 1 Two cases of lymphosarcoma of the lung T J O Dov NELL Irish J M Sc 1926 p 324 Localization by means of lipiodol of an interlobar

pleurisy simulating a splenopneumonia P F ARMAND DELILLE and J VISERT Bull et mem Soc med d hop de 

Empyema in children F G ALLANDER and K L

SHERK Atlantic M J 1926 TRIT 602
The closed method of thoracic dramage in acute pleural empyema 1 HANDELMAN Clin Med 19 6 TTTHE 461

# Heart and I ericardium

wound of the heart suture recovery C LENORMANT Bull et mem boc nat de chir 1936 hi 513 A case of spontaneous rupture of the heart F D GUNN and A M STANES Bull Buffalo Gen Hosp Buffalo N York 1926 IV 9

A chascal contribution upon suturing of the heart G BUFALINI Polichin Rome 1926 xxxui sez prat 653 The technique of cardiolysis V Schulenen Sure Gynec & Obst 1026 xlm 80

# Œsophagus and Medlastlnum

Œsophageal cases D C GREENE Suig Clin N Am 1026 VI 611

Paralysis and atony of the resordagus P Russi Ri

forma med 1026 vin 487 Directicula of the resonhagus J Mortey Brit M J 1926 1 9St

A diverticulum of the cervical esophagus P Mocotor Bull et m'm Soc nat de chir 1926 lu 638

Spasm in the middle of the asophagus G W GRIER Atlantic VI J 1926 XXIX 696 Stricture of the esophagus G TLCKER Med Clin N

Am 1926 7 133 Cicatricial stenosis of the exophagus following lye burns

G TECKER Med Clin N Am 1026 x 130 The diagnosis of carcinoma of the esophagus and a short

discuss on of its treatment L B TREEMAN and H E Waterer South M J 1926 vix 508 An unu ual car moma of the ce ophagus case report

J R CARTY Radiology 1916 vn 63 I ate re u ts of cancer of the coophagus treated with radium J Guisez Paris chir 1926 vin 119

Mediastinal tumor F B UTLEY Atlantic M J 1926

Median sternotomy as a pallative de ompres ive treat ment for tumors of the mediastinum II GAUDIER Bull et mem Soc nat de chir 1926 lu 245 The nature of the out-celled sarcoma of the medias tinum W G BARNARD J Path & Bacteriol 1926 xxix 24I

#### Miscellaneous

Ten cases of thoraco abdominal wounds with a thoracic portal of entry VERGOZ and VIOCOLOT Bull et mem Soc nat de chir 10 6 lu 591

Fracture of the ribs complicated by ileus D T VANDEL J Am M Ass 1926 IXYYN 160

Craded extrapleural thosacoplasty C A HEDBLOM Ann Clin Med 1926 iv 921

Cold abscess of the thorax PERRIN Lyon chir 10 6 XXIII 307

# SURGERY OF THE ABDOMEN

# Abdominal Wall and Peritoneum

A hamatoms of the abdominal wall H H General Brt M J 19 6 11 12 Hernix 1 M TOWNSEND Virginia M Month 1926

lu 221 Hernix of the semilunar line of Spiegel O F Mazzini Semana méd 19 6 xxxiii 1334

Strangulated herma with intestinal perforation in a child of one month ( L García and A J Grosso Semana méd 1926 xxxiii 50

Strangulated inguinal hernia in infants F S WETHER ELL. N York State J M 1926 xxvi 640

Two cases of suppurating appendiceal inguinal herma R E DONOVAN Re decirug Buenos Aires 1926 v 234 A left inguinal hernial sac containing a supernumerary spleen R DAVIES COLLEY Proc Roy Soc Med Lond 1026 XIX Sect Surg 1

A grant inguinal heinia Lecencia and Robvillors Bull et mem Soc nat de chir 1926 lu 703

Myoplasty of the large dorsal muscle to close a lateral eventration DUPUY DE FRENELLE Bull et mêm Soc d

chirungien de Par 1926 xviii 4 0
Permeal hernise R Charrit and G Menegaux. J

de chur 1926 xxvu 555 Some considerations on the 16le of the great omentum and its importance in abdominal surgery R \ HERNAN

DEZ Semana med 1926 xxxiii 1211 acase of supputative epiploitis apparently secondary to the evolution of a duodenal picer and followed by a general

ized abdominal penviscentis Gotquet de Girac Bull et mêm Soc d chirurgiens de Par 1926 villi 306

Fourteen cases of free omental grafts J HERTZ and P DUVAL. Bull et mem Soc nat de chir 1926 lil 492 Miliary tuberculosis and acute pentonitis I RAS Semana méd 1926 xxxIII 27

The treatment of peritonitis due to perforation W ISLER Schweiz med Wchnschr, 1925 lv, 1158

The treatment of peritoneal tuberculosis of the ascitic

form by pneumoperatoneum O P Curri Semana med, 1026 XXXVI 1263

Y ray treatment of peritoneal tuberculosis and tabes mesenterica M S R ZORRILLA Med Ibera 1926, v 10

# Gastro Intestinal Tract

The teaching of gastro enterology in our medical schools

S k Simon J Am M Ass, 1926 lxxxvii, 73 The relation of the chlorides of the body to disease of the

gastro intestinal tract E Rose Atlantic M J 1926 **TXIT 613** [385]

A foreign body in the digestive tract A MOUCHET Bull et mêm Soc nat de chir 19 6 ln 617 The so-called pulsating vascular stomach

Policin, Rome 1920 xxxii sez prat 65r Cardiospasm F J Poynton Proc Roy Soc Med Lond 1926 xix Sect Study Dis Child, 63 Two cases of cardiospasm G F Still Proc Roy Soc

Med Lond 1926 xix Sect Study Dis Child 6

Idiopathic hypertrophic pylone stenosis in the adult C F Bianchitzta Arch ital dichir 1916, xx 585 A case of pylone stenosis (pylorospasin) W M Feld MAN Proc Roy Soc Med, Lond 19 6 xix Sect Study

Dis Child, 57
A chinical study of 221 operated cases of hypertrophic congenital piloric stenosis I A ABT and A A STRAUSS Med Clin N Am, 1926 ix 1305 [385] A statistical study of the diagnostic value of anacidity 13851

H R HARTMAN and W W SAGER Med J & Rec 19 6 CXXIV 06

The etiology and pathogenesis of achylia gastrica k. FABER Am J M Sc 1926 clxvii 1

Syphilis of the stomach report of a case L M BLACK FORD Virginia M Month 1926 lin 49 Syphilis of the stomach report of a case P B MULLI

GAN Radiology, 19 6 vii 62 Gastritis with and without ulcer the role of spasm II

VULLILT Rev med de la Suisse Rom 1926 xlv1 35/ Gastric and duodenal ulcers with a report of unusual cases A E Benjamin J Lancet 1926 ns the 300 The etiology of pepticulcer E G Walls New Orleans

M & 5 J 19 6 lxxx 46

The etiology and pathology of peptic ulcer S LEVINE Am J M Sc 1926, clxx11 22

Long standing ulcer of the stomach Γ B Sr John Ann Surg, 1926 lxxxu 852 [386] The role of infection in the development of ulcers of the stomach Lecène Bull et mem Soc nat de chir 1926

lu 326 Infection in gastroduodenal ulcers J R Govena and THEYOY Rev Soc de med interna 1926 ii 36

Semana méd , 1926 xxxiii 965 Hæmorrhage as a complication of gastroduodenal ulcer

S D MANHEIM Med J & Rec 19 6 cxxiv 98 A high fat rich vitamin diet in ulcers of the stomach and duodenum a protest against routine diets S HARRIS J Med Ass Georgia 1026 tv 60

Surgical treatment of gastric duodenal and jejunal ulcers V PALCHET AIS med 1926 ii 139

Surgical treatment of hourglass stomach with active L TORRACA Ann ital di chir 1926 v 511

Subtotal gastrectomy for peptic ulcer from a medical standpoint A GALAMBOS Med Times 1920, liv 176 Peptic ulcer and the mechanism of its cure by gastroenterostomy J L GANAN Siglo méd 1926 Ixxiii 30

58 78

Gastric carcinoma with the report of three cases of ap parent cure W P Nicolson J Med Ass Georgia 19 6 TV 272

Partial gastrectomy for carcinoma C Eggers Ann Surg 10 6, 1xxx11 128

Sarcoma of the stomach G F CHANDLER Am J Obst & Gynec 10 6 x11 101 Sarcoma of the stomach C E FARR Arch Surg.

10 6, VIII 75 Preventive vaccination against pulmonary complica

tions in operations on the stomach O Lambrer Bull et mem Soc nat de chir 1926 lii 78 The relations between the infectious state of the gastric

wall and certain troubles following gastro enterostomy vicious circle acute chronic or delayed, and so called gastrojejunal peptic ulcer P DUVAL J C ROUA GATEL LIER and MOUTIER Bull et mem Soc nat de chir 1026 lu 270

End results-clinical chemical and mechanical-twelve pylorectomies S M JORDAN Surg Clin N Am 1926 VI 767

Gastne resection in two stages PALCHET Bull et mem

Soc d chirurgiens de Par 1026 VIII 300 The perverted physiology of the stomach after gastric

operations G DE TAKATS Am J M Sc 1026 clvvii The changes in the gastric chemistry after resection of

the stomach M ASCOLI Polichin Rome 1926 VXXIII sez chir 117 Chronic intestinal kinks THEVENARD Bull et mem

Soc d chirurgiens de Par 1926 Tvili 303

A case of postoperative and intestinal obstruction J ROUFFART Bruxelles med 1926 vi 1941 Complement fixation with bilharzia the failure to pro

duce anaphylaxis with the cercarial extract used in the test for mammalian bilharziasis A W TURVER J Path & Bacteriol 19 6 XXIX ,07

The influence of locally injected India ink suspensions on the intracutaneous response to vaccinia and other viruses J C G LEDINGHAM J Path & Bacteriol 1926, TTLX 307

A combination of bismuth and sodium sulphite affording an enrichment and selective medium for the typhoid paratyphoid groups of bacteria Wilson James and BLAIR I Path & Bacteriol 1926 TXIT 307 Enteroid infection a study of five cases A J PATEL

Wisconsin M J 19 0 xxv 330
An account of two cases of rupture of the small intestine

M Morris J Roy Army Med Corps Lond 10 6 xlu 66 Diverticula of the small intestine other than Meckel's

diverticulum J T CASE Bull Battle Creek Samit & Hosp Clin Battle Creek Michigan 19 6 xxi 87 [388] Biliary ileus M MATUS Bol Soc de cirug de Chile

The report of a case of biliary ileus recovery DART igues Bull et mem Soc d chirurgiens de Par 1926 XVIII 341

A case of recovery from biliary ileus Bropger Bull et

mem Soc d chirurgiens de Par 1926, xviii 367

Dynamic deus L C Llobet Rev med de Barcelona 1026 m, 534

Paralytic ileus A GUTIERREZ Rev de cirug Buenos Aires 1026 \$ 15 Acute intussusception in an adult I' W WIDGERS

Lancet 1926, CCX1 122 Acute primary intussusception in the adult I W HINTON Ann Surg 1926 ITTEN 100

Acute intussusception in infants J W Gibbo South M & S, 1926 lxxxviii, 429

X ray visualization of the duodenum by the introduc tion of an opaque fluid through the Einhorn tube F SARACENI C ANTONUCCI and A CELIBERT Policia

432

Rome 1926 xxxiii sez chir 50 Clinical applications of the duodenogram Riforma

med roz6 xlu 4% The arteriome enteric occlusion of the duodenum an anatomical study B HALPERT Bull Johns Hopkins

Hosp Balt 1926 xxxviii 400 13891 Duodeno arteriomesenterio ileus F A Hupson J

Oklahoma State M Ass 1926 x1x 1,8 Chronic duodenal ileus with report of fifty six cases C C HIGGINS Arch Surg 1926 xin 1

Chronic intermittent duodenal stenosis N RATEOCZI

Brit J Radiol 1926 xxxi 253 Stenosis of the third portion of the duodenum P SÉJOURNET Paris chir 1926 XVIII I 8

Postoperative chronic duodenal obstruction with ga tric dilatation D C BROWNE New Orleans M & S J

ig t lixix fr Duodenal ulcer bleeding and about to perforate V

PALCHET Paris Chir 1926 TVIL I 4 Bleeding duodenal ulcer Léo Bull et mem Sor d

chiruigiens de Par 1926 xviii 300 The complications of duodenal ulcer C ROWNTREE Practitioner road cvvu ta

Acute intestinal obstruction from ileocacat invagination LATOUTHE and BAUMGARTNER Bull et mem Soc nat de

chir to 6 lu 631 Two cases of ileocæcal invagination operated upon and cured Dervaux and Moucher Bull et mem Soc nat

de chir 10 6 ln 670 A carcinoid tumor of the ileum with metastases Dukes CUTHBERT and LOCKHART MUMMERY J Path & Bac teriol 1926 XXIX 30/

The pathogenic colon J W DRAFER Ann Surg 1926

Strangulation of the colon due to an abnormal opening in the suspensory ligament of the liver A GUTIEPREZ Rev de cirug Buenos Aires ro 6 v 37 Two cases of acute volvulus of the ileopelyic colon I

DE AMESTI Bol Soc de cirug de Chile 1926 iv 67 Pathological coalescence of a part of the normal ap pendices epiploicis of the colon Léo Bull et mem Soc

d chirurgiens de Par 19 6 vviii 3,0 A case of intestinal and urinary amorbiasis J R GOYENA Semana méd 1925 XXXIII 1075

Two stages of chronic typhlocolitis G FAROY and J BAUMANY Presse med Par 19 6 XXXIV 789 Examination of the faces C J DRUECA Med Times

T026 liv 1 8 Simple tumors of the large intestine and their relation to cancer C DUKES Brit J Surg 1976 xm 720 [390]

A lipoma of the large intestine-resection J Douglas Ann Surg 1926 LYXXIV 131 Carcinoma of the colon not including the recture S

ROBINSON California & West Med 1926 xxv 58 Intestinal surgery thirteen cases of colectomy PAPIN J de méd de Bordeaux 1926 cm 471

Descrient attation of the right colon F C Beall South M J 1926 xiv 560 Chronic cæcal stasis GONZÁLEZ CAMPO Arch de med

Cirug y especial 1920 vii 280 The appendicitis problem T O Burger California &

West Med ro 6 xxv 48 Intestinal invagination in the course of acute appendi DUNET Lyon chir 10 6 xxiu 380

Acute appendicitis with gangrene perforation and abscess formation DORRONSORO and COLSILLO Siglo med 1026 lxxii 583

A case of left sided localization of the appendix which caused a fatal diagnostic error Morvard Bull et mêm Soc d chirurgiens de Par 19 6 xviii 336 Subhepatic appendicitis Séjourner Bull et mém

Soc d chirurgiens de Par 19 6 xviii 304 Three ca es of subhepatic appendicitis due to ectopic

fixation of the cacum BARBET Bull et mem Soc d chirurgiens de Par 1926, VIII 362 Subhepatic appendicitis Petit de la Villéon Bull

et mem Soc d'chirurgiens de Par 1926 xviii 365 Subhepatic appendicitis Dupuy de l'Renelle Bull et

mém Soc d chirurgiens de Par 1926 xvui 443 Abnormal positions of the appendix in the course of ap-

pendectomy Péraire Bull et mém Soc d chirurgiens de Par 1926 xviii 416 Appendicates with an abnormal situation of the appen THÉVENARD Buil et mém Soc d chirurgiens de

Par 10 6 xviii 441 Cystic appendicitis A CATALINA Med Ibeia 1026

Major postoperative conditions following acute suppura tive appendicitis F L BARNES South M J 1926 xix Subdiaphragmatic and liver abscess following appendi

citis E L Eliason Ann Surg 1026 laxuv 116 Lympho arcoma of the appendix with a non rotated

cacum and a review of the literature E FRIEND Illinois M J 1926 1 55
A subserous lipoma involving the transverse colon

OUDARD LANCELIN and COUREAUD Bull et mem Soc nat de chur 1926 ln 685 Two cases of sigmoiditis Coultioud Lyon chir 1926

XXIII 410 A note on diverticular sigmoiditis M ROCH and I Mozer Rev méd de la Sur se Pom 1926 dvi 475

Psuedo neoplastic chronic sigmoiditis Santy chir 1026 xxiii 40r

The syphilitic nature of certain cases of sigmoiditis TEXTER Lyon chir 1926 XXIII 407 Rectal diseases amenable to office treatment J F

MONTAGUE Clin Med 1926 TXXIII 484 An improved rectal dressing pad and binder MONTAGUE J Am M Ass 1926 LYTYN 30

The diagnosis of malignant growths in the rectum C J DRUECE Clin Med 1926 txxiii 486

Carcinoma of the rectum A \ LANDSMAN Med J & Rec 1926 CXXIV 15 Some features in the clinical consideration of cancer of

the terminal colon H B STONE J Med Soc N Jersey 1026 TYUL 338 The treatment of cancer of the rectum indications and

technique of radium surgery V PAUCHET Paris chir 1026 TVIII 80 A comparative study of operations for rectal cancer

J L NARAT Internat J Med & Surg 1926 XXXIX

The treatment of cancer of the rectum C J DRUECA Med J & Rec 1926 extiv 16 The treatment of cancer of the rectum by radium and

urgery PAUCHET Bull et mêm Soc d chirurgiens de Par 1926 xviii 327 Excision of a cancer of the rectum through vaginal sec

tion C J DRUECK Chicago M Rec 1926 tlvii 213 A case of imperforate anus with a congenital rectova pmal fistula A Povjoan Rev méd de Barcelona 1926

Stenosis of the anus in infants B Myers Proc Roy Soc Med Lond 1026 at Clin Sect 48

The mjection treatment of internal hamourhoid R Hoon Hahneman Month 1926 lx1 404

Liver Gall Bladder Pancreas and Spleen

Abnormalities in the portal circulation J F Mov TAGUE Med J & Rec 1926 CXXIV, 93 A wound involving the left lobe of the liver F M

ETCHGOYEN and J GORODVER Semana med, 1926, XXXIII, 1023

The formation and origin of the bile cells and the bile pigments F A Deluca Rev méd Lat Am, 1926 xi, 1590

Modern conceptions of bepatic function H E RAVDIN J Med Soc N Jersey 1926 xxiii 346
Tests for liver function W A Myers J Missouri

State M Ass 1926 XXIII 250

Liver function tests and their clinical value K Win SLOW and W. E. Gibb. Northwest Med., 1926, txv 341.

A new diagnostic test of hepatic insufficiency. R. A. BULLRICH and A PAOLUCCI Rev Soc de med interna 10 6 H 5 Rev med Lat Am 1026, x1 1279

Modern conceptions and management of biliary tract disease F H LAHEY Surg Clin N Am 19 6, vn 667 Acholunc icterus G HADFIELD and T F HEWER

Lancet 1026 CCX1 121

Chronic obstructive jaundice focal necroses in the liver, myeloid transformation of the spleen F P WEBER

Brit M J, 1926 11, 9

The importance of studies of the blood in obstructive aundice due to retention R GRÉGOIRE Bull et mém Soc nat de chir 1926 lu, 650

A family of patients affected with congenital hamolytic icterus Debré Lamy, and Baudry Bull et mem Soc

med d hop de Par, 1926, xhi 1023 Surgical problems of Jaundice I'S RAVDIN J Med Soc N Jersey 1926 XXIII 341

Enlargement of liver a case for diagnosis R RILEY and R HUTCHISO Proc Roy Soc Med Lond to 6 xix,

Sect Study Dis Child 61 The liver and its cirrhoses W J MAYO J Iowa State

M Soc 19 6 xv1 299 An unusual case of hydatid of the liver H R Dew

Med J Australia 19 6 11 83

Hydatid cysts of the liver opening into neighboring cavities Gonzalez Lizcano Arch de med cirug y especial 1926 vii 198

Multiple amorbic abscesses of the liver, three operations with the opening of eight abscesses recovery BOTREAU

ROUSSEL and SCHWARTZ Bull et mem Soc nat de chir 1026 hi 664 A histological study of an amochic abscess of the liver

surgically removed L Bazy Bull et mém Soc nat de chir, 1926 lu 482

A case of abscess of the liver cured by emetine treatment

alone P A PETRMIS Bull et mém Soc méd d hôp de Par 1926 xlu 891 Abscess of the liver G W Norris and D L FARLEY

Med Chn N Am 1926 x 17

Two cases of primary sarcoma of the liver in newborn children J A Atsina Semana med 19 6, xxxiii 23
The ray visualization of the gall bladder E H Skinner and I H Lockwood Kansas City Clin Soc

Month Bull 1026, 11 22 Roentgenoscopy of the gall hladder MADINAVETTIA and Pérez Ricarte Arch de med, cirug y especial 1926

VII, 158 Cholecystography S CADE Lancet 1926 ccx1 1 Observations on cholecystography T I BENNETT A.

Moncrieff and F G Nicholas Lancet 1926, ccal 19
Cholecystography S Pascual Med Ibera 1926 x 29
Cholecystography F S Eveleth Boston M & S J, 1026 CXCV, 165

Cholecystography-intravenous and oral administration of sodium tetraiodophenolphthalein C M Shaar U S Naval M Bull 1926 xxiv, 562

Cholecystography in operative cases C C McCov and R S GRAHAM J Am M Ass, 1926 lxxxvi 1899 [390] Cholecystography the use of phenoltetra iodophthalein E A GRAHAM W H COLE G H COPHER, and S MOORE

J Am M Ass 1926 Exxxvi 1899 [390]
Torsion of the gall bladder G P B Huppy Lancet 10 6 CCX1 120

Volvulus of the gall bladder cholecystectomy recovery DARAIGNEZ and MATHIEU Bull et mêm Soc nat de chir, 1926 lu 701

An address on infections of the biliary tract a stock taking of diagnosis and treatment A T Bazin Canadian M Ass J, 1926 xv1 632

Studies on urobilin physiology and pathology VI The relation of biliary infections to the genesis and excretion of urobilin P D McMaster and R Elman J Exper Med , 1926 zlm 753

An explanation of the two forms of bilirubin demonstrat ed by the van den Bergh reaction G A COLLINSON and F S FOWWEATHER Brit M J 1926, 1 1081 Some phases of gall bladder diseases F M Douclass J Indiana State M Ass 1026 xix 2,0

Considerations on biliary cyst adenoma A GUTIERREZ

Rev de cirug, Buenos Aires, 19 6 v 218
Remarks on the types of mild cholecystutis termed
'strawberry gall bladder P LECENE and P MOULON GUET Presse med, Par 19 6 XXXIV 49 Acute typhoid cholecy status in children-report of a case

treated with mercurochrome M Zelics Arch Pediat 1026 thu 485

Cholecystitis with associated problems E S Junn Hinors M I 1926 xlix, 460 Cholecystitis and chronic appendicitis F RAMOND and

G PARTURIER Presse med Par, 1926 xxxiv 710 A cysta-chepatic fistula cholecystectomy, choledochot omy transvaterian drainage with an ovarian tube re covery M M Cabeza Semana med 1926 XXXIII 24
Gall stones E L Kellogo Med J & Rec, 1976

CXXIV IOO Cholelithiasis Leo Bull et mém Soc d chirurgiens de Par 1926 xviii 376

Physical methods in gall bladder disease M J BREUER Med Herald & Physiotherap , 1926 xlv 171 The physiology of the Meltzer Lyon test

and I Paver. Am J M Sc 1926 class 11 Further observation on non-surgical drainage of the hile

channels E B Milam South M J 1926 xix 526
The medical aspects of gall bladder disease J L Mil LER Illinois M J 1926 xlix 451 Some phases of biliary surgery W P HERBST Illinois

M J, 1920 xhx, 455 The function of liver in relation to operation on the gall bladder and ducts G W CRILE J Am M Ass 1026

lxxxvii, 300 A short discourse on surgery of the gall bladder W J

Mayo Surg Gynec & Obst., 1926 zini 46 Certain experiences with gall bladder surgery

MULLER Med J & Rec, 1926 CXXII 446 [393] On the use of wedges for elevating the loin in gall stone operations G G TURNER Lancet, 19 0 CCv1 224 Aids to cholecystectomy C L Gibsov Ann Surg

1926 LXXIII 618 [393] The late result of a hiliary fistula with implantation of the fistulous tract into stomach F B ST TOHS Ann Surg , 1926 Ixxxii 8,5

Bull

Surgical drainage of the hile passages PAUCHET

et mem Soc d chirurgiens de Par 1926 xviii 4,0

Postoperative stricture of the hepatic duct | Douglas Inn Surg 1026 lxxxiv 112 A study of the accessory pancreas & HATE Ann Sur. 1026 lxxxii 774 [394]

Ruptures of the pancreas in abdominal injuries Cour BOULES Lyon chir 1926 XXIII 01 [394]

Subacute pancreatitis with cyst and cholehthiasis I L LENKER Atlantic VI I 1026 Exix 602

The importance of the spleen in resistance to infection as indicated by a case of severe puerperal sepsis in a woman who had recently been splenectomized E Ca PECCHI Clin Ostet 1926 Exvill 119 13941

Rupture of the spicen H FISCHER Ann Surg 1026 TXXIV 124

A case of splenectomy for acholuric jaundice presenting certain interesting features A L GORDON and R MAIN GOT Med Press 1026 n s CXXII 52

A case of splenectomy for hypertrophy of the spleen Lands Bull et mem Soc d chirurgiens de Par 1926

A case of splenic anamia (Banti s disease) I PEARCE and D PATERSON Proc Roy Soc Med Lond 1016 TIX Sect Study Dis Child 55

Gaucher's disease with cutaneous lesions S E DORE Proc Roy Soc Vied Lond 1926 xix Sect Dermatol 50 The treatment of purpura hamorrhagica by splenectomy W S LERLIN New Orleans M & S J 1926 Izzzt 53 An epithelial tumor in the spleen of a rabbit \ D

# Miscellaneous

BALL | Path & Bacteriol 1926 TRIT 239

Abdominal traumatology A PLAZA Med Ibera 1026

A brief consideration of contusions of the abdomen and treatment of urgency C R Coapoba Med Ibera 19 6

The acute abdomen I G Jourson Nebraska State M J 1926 x1 263

The diagnostics of the acute abdomen B F ICALES Lerginia M Month 1026 lui 50

The contra indications to surgery in acute abdominal affections T De MARTEL Bull et m'm Soc nat de chir 1926 ln 237

Acidosis as a cause of acute abdominal pain MURPHY South M & S 1926 EXXXVIII 435 Visceral pain and referred pain J A RYLE

Lancet 1026 CCX 80c [395] Mild abdominal acrtitis of the gastralgic form R A GOTMINY and D ROUTIER Med 1 ress 1926 n s cyru

Mesentene lymphadeniti A O Wileysky and L I răcai HARTY Ann Surg 1926 lextin 812 Subphrenic abscess L R LIFTELD and R J McV Love Bot J Sarg 1926 xm 683 [397]

Suppurating cysts of the urachus B RIBETRO DE CAS TRO Arch brasil de med 1026 xv1 210

The relation of the colon to abdominal tumors J F RALDHEN Boston M & S J 1926 CTCV 217

Pyelography in the diagnosis of tumors of the flank F C HERRICK Ann Surg 1026 Exxuii 634 [397 Diaphragmatic hernia J W Daeyer Illinois M J

Two cases of diaphragmatic hernia Webber Ann Surg 1026 IXXIV 138 A transdiaphragmatic hernia on the left side eventra

tion of the diaphragm operation recurrence operative technique P 7 Rnéaume Pres c m' l Par 1026 10, VIXX Diaphragmatic hernia in a young athle e W S Ven

COMET Atlantic M J 1026 TELE 687 The use of local and thesia alone or combined with general anasthesia in abdominal surgery H A L Ryrko GEL and E CARESON California & West Med 19 6

xxv 6c A new method of draining the prevesical apace of

Retzius M Seres Rev de cirug Buenos Aires 1926 101

# GYNECOLOGY

#### Uterua

Histophysiological research on the amouth tissue of the uterus Keiffer Bull Soc dobst et de gynée de l'ar 1026 XV 418

The cervix uters of parous women B O Works
Texas State J M 19 0 xxu 212

Koent enological examination of the uterus and tubes after the injection of lipiodol. Corre and Bertrann. Lyon chir 1926 xun 384 Postnatal retrodisplacement of uterus W KERWIN and

J BERMAN J Mi souri State M Ass 19 6 xxm 241 The prevention and cure of prolapsus uters R S Ckox

HI consin M J 19 6 xxv 328
Prolapse of the uterus through a ring pessary with strangulation H A Develv Mantie M J 1926 xxix 6q1

A study of the end results of operations for uterine prolapse at the Woman's Ho pital (New York \ 1) 1915 1925 E \ BULLARD Am | Obst & Gynec 1926 x1

Uterovaginal apla is J IRIBURNE and N C ORTHE Bol Soc de obst y ginec de Buenos Atres 1926 v 51 A double bicornate uterus with a spht vagina HAUTE FORT Bull et mim Soc d chirurgiens de Par 1926 xv111 434

Physometra hysterectomy death AUDEBERT Four NIER and RASCOL Bull Soc dobst et de gynéc de Par 1026 TL 300 The hamolytic fibromyoms of the uterus C CARA

JAN OPOULOS Gyn c et obst 1026 vill 422

A case of torquated uterus myomatosus L JERLOV Acta obst et gynec Scand 1025 IV 107

Rotation of a uterine fibroma with torsion of the vagina Pouliques Bull et mem Soc nat de chir 1026 lu 66 Axial torsion of the fibromatous uterus AUVRAY Bull

et mem Soc nat de chir 19 6 lii 542 Red myomata of the uterus M PATEL and A VACHEY Lyon chie 1926 xxiit 273

Conservative and operative treatment of uterine hamorrhage B ASCHNER Wien med Wehnschr 19 6

ltxs1 r88 Endocerviciti F B CAMPRELL J Mi souri State M Ass 1926 XXIII 42

The treatment of erosions of the uterine cervix C RUBBIANT Clin ostet 1926 xxviii 246

Removal of the cervix in hysterectomy for benign lesions F H Lanes Surg Chn V Am 1926 vi 593 I new clamp for vacinal hysterectomy R G HEN

DRICKS J Am M Ass 1926 LYXXVII 168 The experimental production of endometriomata FERRACCIU Ray stal di ginec 1926 iv 235

Carcinoma of the prolapsed cervix N A MacLEOD Brit M J 196 n i Omental metastasis of a uterine eancer without local recurrence for two years BÉRARD Lyon chir 1926,

TXIII 416 Methods of radium treatment deep gamma therapy F SLUYS Bull Soc dobst et de gynéc de Par 1926

Radium treatment in cancer of the uterine cervix

DELPORTE and CAHEN Bull Soc d obst et de gynéc de Par, 1926 XV 416

Radium treatment in cancer of the uterine cervix CHEVAL HENROTAY ROUFFART THIRIAR SLUYS CAMEN and MAYER Bull Soc d'ohst et de gynée de Par 1926

Radium therapy in cancer of the uterine cervix and the cervical canal V Arrow DI Savr Agnese Clin ostet

1026 XXVIII 25

A case of moperable cancer of the uterine cervix treated hy radium GUENTHER Bol Soc de cirug de Chile 10 6

Cancer of the cervix treated with radium at a distance R PROLST L MALLET and R COLIEZ Bull et mem Soc nat de chir 1926 hi 284 [399] Results of radium treatment in cancer of the utenne

cervix E ROUFFART Bull Soc d'obst et de gynée de

Par. 10 6 Ev 415

Carcinoma of the cervix and fundus uten treated by combinations of surgery radium and roentgen ray H H BoxING Radiology 10 6, vi 487

# Adnexal and Perlutering Conditions

The report of a case of congenital unilateral absence of the uterine adnexa 1 Somaru Gynec si obst 1926

The occurrence and present chemical status of the female sex hormone R T FRANK R G GUSTAVSON J HOLLO WAY D HYNDMAN and others Endocrinology 1926 v

The biological action of the corpus luteum P ANCEL

and P Bourn Gynéc et obst 1926 viu 401
Studies on vigor VIII The effect of the subcutaneous injection of corpus luteum extract on voluntary activity in the female albino rat E P Durrant Endocrinology 1926 ₹ 286

Some chemical and physiological properties of the hor mone of the liquor folliculi E A Dorsy J O RALLS and

C > JORDAN Endocrinology 1926 x 273

Experimental studies on the action of the follocular fluid L BROUHA and H SIMONNET Bull Soc dobst et de

gynec de Par 1926 xv 419

The effect of follicular and placental hormones upon the mammary glands and general tract of the opossum C HARTMAN C DUPRE and E A ALLEN Endocrinology 1926 X 201

A degenerative cyst of the right ovary blocking the true pelvis and causing complications due to compression J P Tourneux Bull Soc dobst et de gynéc de Par 19 6

X1 3,8 Sampson's cyst of the ovary F E KEEVE Ann Surg

1026, lxxx1v 121

Cysts of the ovary rupturing into the peritoneal cavity COSTINTINI and VERGOZ Bull Soc dobst et de gynéc de Par 1926 xv 282 Twisted ovarian cysts in two pseudo hermaphrodites

FRICHAUD and VIALLE I durol med et chir 1926 xxi

An ovarian cyst with torsion of the pedicle N C Torres Semana méd 1926 xxxiii 1034

Torsion of the pedicle of a parovarian cyst Lacouture and TAVREAU Bull Soc d obst et de gynéc, 1926 TV,

Tuberculosis of the ovary A GUILLEMIN Bull Soc d obst et de gynec de Par 1926 vv 369

Brology and pathology of the female A handbook of gynecology and obstetrics J HALBAN and L SEITZ Vol V Part II The chinical study of ovarian tumors A MAYER Injuries and foreign bodies H FUETH 1926

Berlin Urban & Schwarzenberg The anatomical disposition of the utero-ovarian ligament in certain tumors of the ovary Bernardbeig Bull Soc d'obst et de gynéc de Par 1926 vv 390

Two cases of solid tumor of the ovary DAMBRIN BERNARDBEIG and THOMAS Bull Soc dob t et de

gynéc de Par 19 6 vv 381 Granulosa-cell tumors of the ovary particularly in elder

ly women with simultaneous hypertrophy of the uter ine mucosa F ISBRUCH Zentralbl f Gynaek 1926, l

Some pathological aspects of carcinoma of the ovary A A THIBAUDEAU Arch Clin Cancer Research 19 6

Krukenberg's tumor J C AHUMADA Bol Soc obst v ginec de Buenos Aires 10 6 v 71

A procedure for determining the patency of fallopian tubes at laparotomy J E Miles Surg Gynee & Obst 1926 xlin 97

A new apparatus for tubal persufflation A RUBINSTEIN Semana méd 1926 xxxIII, 1278

Air insufflation of the tubes P GRAFFAGNING Am J Obst & Gynee 1926 vii 98

Two eases of pregnancy after double adnexitis treated hy Delbet's vaccine P DALÉAS Bull Soe d'obst et de gynec de Par 19 6 xv 411 Report of a case of double pyosalpinx in a child aged 5

years G R BURKE J Am M Ass 1926 IXXXVII 31 A case of evaggerated pain following tubal rupture LAFFONT HOUEL and CORTES Bull Soc dobst et de gynéc 1926 xv 286

#### External Genitalia

Four eases of rodent ulcer of the vulva I MEDINA

Rev de gynec e d obst 1926 xx 153 Baldwin s operation Brown Bull Soc d obst et de gynéc de Par 1926 xv 418

Congenital absence of the vagina Baldwin s operation without division of the mesentery recovery Costantini and GOTARD Bull et mem Soc nat de chir 1926 lii

The report of a case of artificial vagina constructed according to Mori's technique condition three years after the operation O S PERSAMOW Zentralbl f Gynaek. 19 6 1 550

Imperforate hymen causing retention of urine F C HAMMOND Atlantic M J 19 6 XXIX 690

Massive hæmatocolpos due to imperforate hymen acute retention of the urine A J Lasala Semana med, 1926 XXXIII 1264

Sublimate poisoning from the vagina M Magin Zentralbl f Gynaek 1926 l 537 Vaginal cysts D Zenna Gynec 51 obst 1926 iv 25

Three cases of vaginal myoma D TUBEROWSKY Zen

tralbl f Gynaek 1926 l 483 Grave evolution of a vesicovaginal fistula Guyor and

PRINCETEAL Bull Soc d ohst de gynéc 1926 XV 302 Urethrovesical prolapse resection of the mucosa and anterior my orraphy Costantini and Vergoz Bull Soc dobst et de gynéc de Par 1926 vi 283

#### Miscellaneous

The menstrual rhythm and intermittent melancholia LAIGNEL LAVASTINE Gynécologie 1926 XXV 211 Bleeding repeated each month in the treatment of some inherent disturbances and alterations in menstrual func-

tion R BOMPIANI Clin ostet 1926 xxvm 257 Actinotherapy and diathermy in constitutional amenor rhora F FALIA Chin ostet 1926 Exviii 250

The basal metabolic rate determination in dysmenor thera A HEYN Zentralbl f Gynaek 1926 1 386 The diagnosis and treatment of dysmenoriheea kness Bull 50c dobst e de gynéc 1926 zv 342

Gynécologie 1926 xxv 194 Heredity and sterilization I' L RHODES Ohio State

1 J 1926 XIII 604 Modern methods of physical diagnosis in gynecology D I G ORCOYEN Med Ibera 1926 x 597

Modern methods of physical diagnosis in gynecology VITAL AZA Med Ibera 1926 x 628

The sedimentation test in gynecology I Smiley Med J & Rec 1026 CXXIV 34 The sedimentation rate of the red cells in gynecology

T Curza Gior batteriol e immunol 1926 1 241 I new method of roentgenological examination in gyn ecology P CARRERAS I FIGUERAS and F FAIXAT Rev mêd de Barcelona 1026 ni 436

Pelvic inflammation in women I H Noves Boston M & S J 1926 exciv 1025

The use of milk injections in pelvic inflammation CHAMPLIN IR Boston M & S J 10 6 exciv 1020 [399] Thermotherapy in the treatment of pelvic inflammation

W H MACUL Bo ton M & S J 1920 CECIV 1031 [399] The cultural method of testing the virulence of bacteria from the cervix and vagina and its lignificance with regard to postoperative morbidity and mortality C PRIBRAM Zentralbl f Gynack 1926 I 137

The virulence test in gynecology and obstetrics E M Fuss Zentralbi I Gynaek 1026 I 140 Hydatid processes in the pelvis Blanc and Fortacty

Med Ibera 1926 x 693 Chorionepithelioma F B ROGERS Texas State I M 1010 XXII 100

The effect and risks of radium treatment in benign gyn ecological complaints W MOLLER Acta obst et gynec Scand 1025 IS 222 Local photo electric treatment in gynecology A STERE

Gynec stobst 19 b Iv 12 Diathermy and ultraviolet rays in gynecology POMENT Cha estet 19 6 xxviii 233 Gynecological operation in insanity E McDayage

Med I & Rec 1926 ckriv 23 Spinal anasthesia in gynecological surpery A Bello Semana méd 19 6 XXXIII 1255

# OBSTETRICS

# Pregnancy and Its Complications

The diagnosis of pregnancy and the prognosis of sex R WEFES Med J & Rec 1926 exxiv 33

The diagnosis of pregnancy in the first half by fetal roentgenography S E BERMAN Rev med Lat Am

1050 41 170 The normal and pathologi al physiology of pregnancy H EHRENTEST Am J Obst & Gynec. 1926 xu 58
Dyspareunia during pregnancy J 5 Galant Zischr

f Geburtsh u Gynnek 1926 lxxxix 505

Two subtotal hemity sterectomies in cases of bicornate uterus followed by pregnancy at term P PETIT DUTAIL LIS Bull Soc d'obst et de gynéc de Par 1926 vy 36 A case of pseudo aphasiac mental confusion during preg nancy F Charretov and R De Suissure Per med de la Suisse Rom 1926 xVvi 478

On chorea gravidarum and its etiology O GROENÉ Acta obst et gynec Scand 19 5 iv 203 Poisoning in an attempted abortion Commandeur and

BROCHTER Bull Soc d'obst de gynéc 1926 Et 316 The thyroid during pregnancy S STROUSE and P A Daty Wisconsin M J 1926 xxv 325

Diabetes in pregnancy A \ Pickett Lentucks M J 1926 xxiv 324 Cardiac decompensation during pregnancy

SCHAUPP Lahifornia & West Med 1026 xxv 61 Insulin in cardiac insufficiency in a diabetic pregnant

woman with acidosis Blanco Soler Arch de med cirug y especial 1926 vii 11 Permusous anarma of pregnancy R B Mordy Bol

Soc de abst y ginec de Buenos Aires 1920 v 42 A case of permicious aniemia of pregnancy cured by small repeated transfusions GARIPUL Bull Soc dobst. et de gynéc de Par 1926 xv 397

The question of the serological recognition of lues with various methods in pregnancy and tuberculosis. A KLOP STOCK and \ HILPERT Alm Wchnschr 1926 v 359

The relationship between pregnancy and tuberculosis H FORSSVER C SUNDELL and C KJELLIN Acta obst et gynec Scand 1925 IV 210 [402] Pulmonary tuberculosis complicated by pregnancy McIlroy Proc Roy Soc Med Lond ro 6 xix Sert

Obst & Gynne 61 [402] A maternity for tuberculous patients A Couveraine Gynéc et obst 1926 xiii 428

Mea les followed by premature delivery in the ca. of a woman with congenital atrophy of the pelvis DALEAS and Gally Gasparrou Bull Soc dobst et de gynée de Par 19 6 tv 388

Bubonic plague and pre-nancy LAURENTIE and TYAN Bull Soc d'obst et de gynée de Par 1920 tv 401

The defensive mechanism of the parametrium during regnancy and labor J Horsauer Bull Johns Hopkins Hosp Balt 1926 xxxvii 255

Bilateral suppurative salpingitis and peritonitis at the beginning of pregnancy extirpation of tubes continuation of the pregnancy REER Bull Soc dobst et de gynéc de Par 1926 xv 3 5 Abortion probably due to streptocoucic endometritis

second gestation streptococcic pyelonephritis vaccine therapy normallaborat term H Vioves Bull Soc d obst et de gynéc de Par 1026 xv 351

The possible serological differentiation of the micrococcus

melitensis of Bruce from the bacillus abortus of Bang TAPIA and MARTIN DE \TVOLAS Arch de m d cirug y especial 1026 val 104.

Extra uterine pregnancy diagnostic error pseudopla centa LAURENTIE Bull Soc d'ob t et de gynéc de Par

1926 XV 402 Extra uterine pregnancy F Potvix Bruxelles méd

1926 VI 996 A case of extra uterine pregnancy L Tunion Rev de

gynec e dobst 10 5 xt 157 Recurrence of ectopic pregnancy after a brief interval D CLEMENTE Polichin Rome 1926 xxxiii sez prat. 688

A case of ruptured extra uterine pregnancy on the left side and ovarian cysts on the right side GUYOT and PRINCETEAU Bull Soc d'obst et de gynéc de Par , 1926 XV 94

Ruptured tubal interstitial pregnancy PERY, BOURSIER and Mancé Bull Soc d'obst et de gynéc de Par , 1926

XV 301

Tubal pregnancy at term retained for four or five months, laparotomy extirpation recovery C MARET Bull Soc dobst et de gynéc de Par 19 6 xt, 341

Skeletalization of an old tubal abortion E LAHN Zentralbl f Gynack 19 6 1 4,9

A case of abdominal pregnancy R A ARENS and A R

BLOOM Radiology 1926 vii 65 Two cases of intractable vomiting in pregnancy due to uterine retroflexion, laparotomy ligamentopexy recovery DARTIGUES Bull et mem Soc d chirurgiens de Par

1926, XVIII 418 A case of partial incarceration of the seven and one balf months gravid uterus conservative casarean section Lévy Sosal and Cleisz Bull Soc d'obst et de gynec

de Par, 1926 xv 354

Rupture of the uterus through a previous cresarean scar P H WILLIAMS Am J Obst & Gynec 1926 xu 125 Irreducible cervical dermoid cysts necessitating exesavean

section R SCHOCKAERT Bull Soc dobst et de gynéc de Par 1026 XV 415

An ovarian cyst complicating pregnancy T R Ayars

J Missouri State M Ass 1926 Txin, 252 Ovarian cysts removed during pregnancy without its interruption R A Hurn Am J Obst & Gynec 1926

XII 140 Uterine fibromyomata during pregnancy J Bazan

Semana méd, 19 6 xxxiii, 1403

Two cases of pregnancy complicated by fibroids R M BEACH Am J Obst & Gynec 1926 xii 132 Two cases of fibroma complicating pregnancy FIRKET

Bull Soc dobst et de gynéc de Par 19 6 xv, 418 Two cases of fibroma with pregnancy COMMANDEUR and VILLARD Bull Soc d'obst et de gynéc de Par, 1926, xv

Two cases of fibroma with pregnancy VILLARD Bull Soc d obst et de gynée de Par, 1926 v, 330 Myomectomy during pregnancy R SCHOCKAERT Bull

Soc dobst et de gynéc de Par 19 6 xv 414

Fibroma prævia cæsarean section new pregnancy casarean followed by hysterectomy GONNET PATER and PLANCHU Bull Soc dobst et de gynéc de Par 1926 X1 323

Accidental hæmorrbage in pregnancy \(\Gamma\) P McNalleY J Missouri State M Ass, 19 6 xxiii -38

The etiology of accidental bemorrbage and placental infarction an experimental investigation F J Browne

Brit M J 1926 1 683

A revised conception of antepartum accidental hæmor rhage G Firzcibbox Proc Roy Soc Med, I ond 1026 tix Sect Obst and Gynac 80 Premature separation of a normally inserted placenta

P BURGER Bull Soc d'obst et de gynéc de Par 1926

A case of separation of undetermined origin of the nor mally inserted placenta P BALARD Bull Soc d obst et de gynec de Par 10 6 xv 204

Placenta prævia treated by Sumpson's method Daléas and Galy Gasparrou Bull Soc d'obst et de gynéc de Par 1926 xv 377

A benign tumor of the placenta Byox Bull Soc d obst

et de gynéc de Par 1926 xv 407 The physiology of the amniotic fluid H KEIFFER Bull Soc d obst et de gynée de Par, 1926, xv, 273

The calcium content of the buman placenta Coisset and Vignes Bull Soc dobst et de gynée de Par, 1926

xv 280 The umbilical cord N W Vaux and W BELK J Am

M Ass, 1926 lxxxvii, 154 Twisting of the cords in a case of mono amniotic twins H VERMILIN Bull Soc dobst et de gynéc de Par, 1926

xv, 366 Hæmatoma of the umbilical cord causing the death of the

fetus m the uterus AUDLBERT and SOREL Bull Soc d obst et de gynéc de Par 1926, vi 410

The treatment of severe cases of pyelonephritis of preg nancy R GARIPUY and J MARTIN Bull Soc dobst et de gynéc de Par, 1926 vv 384

Severe vomiting continuing to the end of pregnancy tetany during labor Anderodias and Balard Bull Soc d obst et de gynéc de Par, 1926 xv \*97

Excessive vomiting of pregnancy and eclampsia W
THALHIMER Wisconsin M J 19 6 xxv 323
Totamia of pregnancy J H BEATY Minnesota Med,

19 6 IX 396 A classification of the toxemias of the latter balf of preg

nancy H J STANDER and C H PECKHAM Am J Obst & Gymec 10 6 x1 583 The tendency to acidosis in the toxemia of pregnancy

preliminary report W E LEVY Surg Gynec & Obst 1026 xlui 38

The intradermal salt solution test in normal and toxemic pregnancies a diagnostic and prognostic aid A F LASH Surg, Gynec & Obst 1926 xlin 40

Glucose and insulin in the toxemias of pregnancy C MILLER Am J Obst & Gynec, 1926 xi, 763 [401]
Maternofetal blood reactions Caudière and Guérin

VALMALE Bull Soc d'obst et de gynéc de Par, 1926 xv 85 4041

The prophylaxis of eclampsia J Wieloch Muenchen med Webnschr 1926 lxxiii 279

Ten years experience with eclampsia U WESTPHAL Ztschr f Geburtsh u Gynack 1926 lxxxix 626 [405] The treatment of eclampsia M P Rucker Virginia [405]M Month 1926 lu 97

The improved prophylactic method of treating eclamp sia with comments on the variations suggested by Wil hams Stander, Speidel, and Ling B STROGANOFF Am J

Obst & Gynec 1926 x1 756 Cancer of the breast and pregnancy EPARVIER and

SAVIY Bull Soc d'obst et de gynéc de Par, 19 6 xv

Cancer of the cervix in pregnancy JoB and HAMANT Bull Soc d obst et de gynéc de Par 1926 xv 366 Vaginal flushings at the end of pregnancy E Schwarz

LOPE Zentralbl f Gynael, 10 6 1 533

# Labor and its Complications

A plea for drastic reform in the teaching of midwifery G W THEOBALD Proc Roy Soc Med, Lond 1926 tix Sect Obst and Gynze, 94 The application of the new definition of normal labor to

the clinical study of obstetrics a new outlook on midwifery M C DE GARIS Med J Australia 1926 n 6

A consideration of methods calculated to achieve the

highest possible percentage of nonoperative deliveries H C Lyman Hahneman Month, 1926 km 422
A true case of missed labor E Kahn Zentralbl f Gynack 1926 I 480

Labor induced and rapidly terminated in a case of psy chosis with acute mania in pregnancy. Audebert and Daléas Bull Sor d'obst. et de gynéc de Par 1926 xv 404

The treatment of fetal suffering in the period of dilata tion R Schwarcz Semana med 1926 txxii 1417 A new type of forceps E Zwefrer Zentralbl f

Gynaek 1926 l 604 kjelland forceps forceps applied in the superior strait R Schwarcz Bol Soc obst y ginec de Buenos Aires

1920 V 81 Forceps at the superior strait rules for application of kiellands forceps R Schwarz Semana med 29 6

XXX111 1281 Transformation of high face presentations Planchu Bull Soc d'obst et de gynéc de Par 1020 vy 410

The contraction as opposed to the retraction ring in labor C W THEOBALD Irish J M Sc 1926 p 318 A maneuver to overcome the difficulty can ed by Bandl s

ring in internal podalic version U I ERVANDEZ Semana méd 1926 xxxIII 1241 Fibroma przevia J Bazan Semana med 1026 vzxiii

A case of uterine fibroma causing intraperatoneal hamor

rhage during labor LANTI EJOUL Bull Soc d obst et de gynéc de l'ar 1926 v 349

Expectancy and intervention in relative strictures of the pelvis Torre Blanco Arch de med cirug y especial

1926 vii 33. Clin y lab 1936 xii 384
Expectancy and intervention in cases of relative pelvic
contraction? N visitota Vich de med circug y especial
1926 vii 520 Clin y lab 196 vii 3,6
The conduct of labor in the presence of a contracted pelvis A HEYN Deutsche med Wchnschr 1926 lu 111

Contracted pelvis introduction of a Gigli saw version living infant P TRILLAT Bull Soc dobst et de gynéc de Par 1926 XV 339 A statistical study of the incidence and treatment of

labor complicated by contracted pelvis in the obstetrical

service of the Johns Hopkins Hospital from 1806 to 1921 J W WILLIAMS and K C SLV Am J Obst & Gynec The kyphotic pelvis casarean section death from per foration of an unrecognized pyloric ulcer FOURNIER Darks and Gala Gastarrot Bull Soc dobst et de

gynés de Par 1926 xv 406 The report of five cases of hebotoms for pelvic dystocia Dijol Bull Soc dobst et de gynée de Par 19 6 xt

Embryotomy on the living fetus J B Gonzalez Bol Soc de obst y ginec de Buenos Aires 19 6 v 37

Two cases of uterine inversion D Apole to Rev de gynec e dobst 10 6 vt 104

Rupture of the uterus in a case of face presentation hysterectomy GLENIOT and SUZOR Bull Soc dobst et de gynée de Par 19 6 x 33 [406] A ase of uterine rupture Nole's Bruxelles méd

1926 VI 955 Uterine rupture C NoLENS Bull Soc d'obst et de

gynec de Par 1026 tv 410 Absolute and permanent incapacity due to injury of the urmary tract m an accident of labor 1 1 Mascrorea

Semana méd 1926 xxviii 104 The more common injuries of the female perineum as a result of childbirth W D PHILLIPS New Orleans M &

S J 1926 lvux 1, Cee arean section J H Prak Internat J Med & Surg 1926 XXXIX 2/0

Acute suffocating capillary bronchitis complicating preg nancy at term Casarean section recovery L CHOOLARD Rev méd de la Suisse Rom 1926 vlvi 43

Casarean section at the beginning of labor in a uterus infraseptus unicorporeus Laffort and Janier Bull Soc d obst et de gynéc de Par 1926 xv 284

Three cases of premature labor in casareanized patients GOVNET Bull Soc d obst et de gynée de Par 10 6 xv

Spontaneous delivery in a woman having previously undergone a clesarean operation Dujoil. dobst et de gynéc de Par 1926 xv 337

A case of casarean section in twin pregnancy G W LULE Edinburgh W J 1926 xxxiii Edinburgh Obst

[407] Low or cervical casarean section M A Hawa South

M J 1926 xix 554 Indications for low casarean section Brown , Bull Soc dobst et de gynic de Par 1926 ti 420

Iow transperstoneal casarean section PORTES and RISACHER Bull Soc d'obst et de gynic de Par 1026 T\$ 274

Result of seventeen cases of low conservative casarean section LE l'ORIER Bull Soc d'obst et de gynéc de Par

1026 XV 360 I case of transperitoneal casarean of the lower segment P TRILLAY Bull Soc d'obst et de gynée de Par 1926

23 321 Conservative Crearean section by the lower utenne segment inci ion J M M KERR and J HEYDRY Surg Gynec & Obst 1926 xlm 85

The management of the placental period with particular reference to the question of the removal of placental rest remaining in the uterus A Haba Arch f Gynaek 1025

The management of cases of normal adherence of the placenta Levi Bull Soc d'obst et de gynéc de Par 1026 IL 3 4

The danger of manual separation of the placenta with particular reference to compression of the aorta. H MONTAG Monatsschr f Geburtsh u Genach 1026 Ixxu

Obstetrical shock E L STONE Am J Obst & Gynec [107] 10 6 XI 630 Fatal cardiac complication occurring fourteen hours after

delivery acute endocarditis grafted upon old lesions of the mutral valve Desnoyers Bull Soc dobst et de gynéc de Par 1926 xv 277

# Puerperlum and its Complications

A water driven breast pump I A ABT J Am M Ass 1026 lxxxx 240

Cystoscopy in the puerpenum O R Lina Rev de gynec e d obst 1026 XT 161

Casarean section complicated by subacute dilatation of the stomach and retention of lochia from anteflexion and agglutination of the cervix AUDEBERT Bull Soc d obst et de gynéc de Par 1926 vv 390 Grave hæmorrhage from a cervical tear twelve days

after labor during which forceps had been applied at the superior strait becau e of the contracted pelvis Péry Baland and Mangé Bull Soc d'obst et de gynéc de Par 1026 tv 200

Biermer's anæmia after labor cured by repeated small transfusions Audeaert Boyhoure and Galy Gaspar ROU Bull Soc d'obst. et de gynéc de Par 1026 x1 386 The frequency of gonococci in the locbia during the puerperum \ L KAPLIN Mun hen med Webnschr

purpersum 41

19 6 Ivum 41

Puerperal infection a study of an chological factor
D II BESSEN Med J & Rec 19 6 cvus 2,

Camphorated of in the treatment of puerperal sepsis T CAVAZZANI Policim Rome 1926 xxxiii sez prat 689

1 cured case of puerperal septicæmia Ocravio DE Souza Rev de gynec e d obst 1926 xx 18

Acute postpartum peritoneal tuberculosis simulating a puerperal infection. A FRUHINSHOLZ Bull Soc d obst et de gynéc de Par, 1926 v. 371

Acute meningo-encephalitis in the puerperium simulating eclampsia S Joseph and E RABAU Zentralbl f Gynaek,

1926 1 5 5

# Newborn

Antenatal and neonatal protection of the infant J Sobel. Arch Pediat 19 6 xlui 448

Intracranial injury in a newborn child P T TALBOT

Am J Obst & Gynec 19 6 til 13,

Fatal melæna in a child of 2 days due to intestinal in vagination Garipuy and Mériel Bull 5oc dobst et

de gynéc de Par 1926 xv, 396 A large angioma of the upper limb in a newborn child

BAUX Bull Soc d obst et de gynéc de Par 1926 TV 408 The pathogenesis and histogenesis of acute infections of nursing children N M NICOLAIEN Gynéc et obst, 1026 XUI 400

Streptococcus pneumonia in a newborn probably the result of antenatal infection C M O CONNOR Bull Buffalo Gen Hosp Buffalo N York 10 6 IV o

The stigma of hereditary syphilis at birth COMMANDEUR and RHEVTER Bull Soc d'obst et de gynéc de Par 19 6 TV 317

A celosomic monster BAUX Bull Soc dobst et de gynéc de Par 1926 vv 408

Exomphalos in an infant D T CANNON Irish J M Sc 1026 p 3 6

#### Miscellaneous

The history of obstetrics R M ANDERSON I Okla homa State VI Ass 1026 VIX 173

Our obstetrical and gynecological responsibilities G G WARD J Am M Ass 1926 Exxxvii 1

Essentials in obstetrics teaching H E DIEHL J Am Inst Homeop 1926 xix 610

An improved self-retaining obstetrical speculum

KRITZLER Deutsche med Wehnschr 19 6 hi 325 Outlet pelvimetry and its importance C O McCor

MICK Am J Obst & Gynec 1926 vi 794 The oblique oval pelvis of Naegelé with congenital lum bar scolosis from asymmetry of the fifth lumbar vertebra in a girl of 15 years H L ROCHER G RIOUX, and G ROLDIL J de méd de Bordeaux 19 6 cm 47/

# GENITO-URINARY SURGERY

# Adrenal Kldney and Ureter

The hypernephromata R Molla Med Ibera 19 6 т 657 Hypernephromats A E Вотне Ann Surg 19 6

lxxxiv 57
Nephropexy with enervation for renal ptosis

BISQUERTT Bol Soc de cirug de Chile 19 6 iv 53 A method of operation for floating kidney G PILRI [408] Arch ital di urol 1926 ii 398

Traumatic rupture of the kidney W E Courts Bol Soc de cirug de Chile 1926 iv 50

Total infarction of the kidney from traumatic necrosis of the vascular peduncle L PISANI Arch ital di urol

1026 11 403 [408] Congenital defects of the Lidney H M CLUTE Surg Clin N Am 1926 v1 ,83

Remarks on four cases of horseshoe kidney SWAN Proc Roy Soc Med Lond 19 6 xix Sect Urol Small mastic kidney KUMMER and MARION J d'urol

méd et chir 1926 xx1 548 Various forms of kidney insufficiency W KERPPOLA

Acta med Scand 19 6 lxui 558

The surgical significance of albuminuma J B M M AL PINE Practitioner 1926 CXVII 20

The dilution and concentration tests of renal fun tion J H PRATT Boston W & S J 19 6 cvcv, 03

The laws of Ambard and his urea secretory con tant are erroneous V C PAULESCO G MARZA and I TRIFU

J durol méd et chir 1926 xx1 510 The rate of urea excretion as a test of renal function by means of a modification of VicLean sindex S KAWAHARA

Arch Int Med 19 6 xxxviii 36
The intravenous phenolsulphonephthalesu\_test in the

examination of kidney function HELOUIN Presse med Par 10 6 xxxiv 755 Studies on renal function an experimental and clinical

study on exact doses of certain dyes. A Cassuro Policha Rome 1926 xxxiii sez chir 233

Functional and structural changes in the Lidneys J E Davis Internal J Med & Surg 1926 xxxix 299

A case of left hydronephrosis six years after abdoroino perineal excision of the recture for carcinoma recti W F Miles Proc Roy Soc Med Lond 1926 xix Sect

Surg 24 Early hydronephrosis its treatment R LANDIVAR

Semana méd 19 0 txx111 1018 I case of hæmatonephrosis coincident with a malfor mation of the calyces treated by nephrectomy C VIAV NAV I durol roed et chir 1026 Ext 530

Spontaneous rupture of hydronephrosis R M LE COMTE J Urol 1926 X1 51,

on tuberculous infections of the Lidney H CABOT Lancet 19 6 ccx1 53

Staphylococcus infection of the renal parenchyma P W ASCHNER Am J M Sc 1926 clxxn 63
The kidney a filter for bacteria VII The passage of

bacillus coli through the kidney with acute staphylococcic lesions H F HELVHOLZ and M R BOWERS Am I Dis Child 1926 xxx1 856 [408]

Renal tuberculosis in acute form J DORE Urol & Cutan Rev 19 6 xxx 410

The evolution and late termination of two cases of bi lateral renal tuberculosis after nephrectomy LAVENANT Bull et mem Soc d chirurgiens de Par 1926 vviii 450 Bilateral renal tuberculosis partial bilateral exclusion JUNGANO J d'urol méd et chir 1926 xx1 519

Fatal obstruction after nephrectomy for tuberculosis CARAVEN J durol méd et chir 19 6 xx1 521

Discussion on pyelography G Ball T E HAMMOND A ANDREWS Sr J THOMSON WALKER and othe Proc Roy Soc Med Lond 1926 xix Sect Urol 19 THOUSON WALKER and others

Interpretation of the pyelographic shadow Nicholas Radiology 1026 vi 460 Variations in normal pyelograms a clinical radiological

study D V EISENDRATH and R A ARENS Radiology 1926 VI 4,4 [409] Shadows in the urinary tract from a practical urological view O GRANT Kadiology 1926 vi 481

Some consideration of renal pathology O GRANT Kentucky M J 1926 XXIV 314

Acphintis with essential hamaturia P Barco Arch rtal du urol 1926 n 602

Practical considerations of renal physiology and function their application to the management of nephritis P S Hench J Am. M Ass. 1926 lexxvn 8

Further studies on pyelitis H F Helmiolz South
M I 1026 xix 501

Penal calculus A C S GUPTA Lancet 1926 ccm 21
The neces ity of early intervention in renal and uneteral
calculosis F PAZZI Policlin Rome 1926 TAXIII Sez
prat 61

Suture of the renal pelvis after pyelolithotomy G D AGATA Arch ital di urol 1926 in 26 Experimental nephrotomies III Nephrotomy without sutures in dogs with single kidneys W J CARSON and

sutures in dogs with single kidneys W J Carsov and A F Goldstein J Urol 1926 xv 505 The diagnosis of tumors of the kidney by wreteropye lography Le Fuz Bull et mem Soc d chrungens de

Par 1926 xvu 440
Congenital polycystic kidney E B McGregor U S
Naval M Bull 1926 xxiv 571

A case of renal hamatic cyst Horrocourt and Legueu
J durol med et chir 1926 vm 543

Hypernephroid tumors of the kidney and Grawitz tumor G TAROZZI and E FORTI Arch ital di urol 1926 u 517
A study of the occurrence of fever in mahgnant tumors of

the kidney with the report of a case S J REGAN Bull Buffalo Gen Hosp Buffalo N York 1926 iv 6

Papillary epithelioma of the kidney pelvis case report.

P BROMBERG South M J 1926 aix 350

Carcinoma of the kidney C F Rusche California &

West Med 1946 xxiv 474

Cancer of the kidney with hydro ureter simulating a pelvic syndrome lumbar nephrectomy recovery CATHE
LIN Bull et mém Soc d'chirurgiens de Par 1946 xviii

421
Imperiorate supernumerary ureter diagnosis by pye
lography partial nephro ureterectomy ALLENBACH
BOSCAGE and FRANCK J durol méd et chir 1926 zu.

Primary congenital megalo ureters J S Essenstaedt

Arch Surg 1930 xm 64
A rare anomaly of the left ureter HT Low and JC
EPIER J Urol 1936 xv 523
Uretentis cysuca J B Cleland Med J Australia

1916 u 13
Cystoscopic removal of ureteral calculi presentation of
a new instrument H L CECIL J Urol 1926 xv 520
Stricture of the ureter E BRATAUD Minnesota Med

1926 IX 380

Ureteral stricture its symptoms treatment complications and results with a study of seventy six cases. A H Leacock and R F Hain. Surg. Gynec & Obst. 1926

Primary tumors of the ureter R L STEWART Brit J Surg 1926 xiii 567 [411]

#### Bladder Urethra and Penis

Injuries of the urethra and bladder a study of thirty cases. A II PEACOCK and R F HAIN J Urol 1926 xv 563

I veraperation al rupture of the bladder P Luraud Paris chir 1920 xviii 125 The significance of vesical symptoms S C McCox

Urol & Cutan Rev 1926 xxx 418
A new diagnostic and operating composite direct and indirect vision cystoscope G GREENBERG J Urol 1926 xv 553

Caudal analgesia in cystoscopy A E Goldstein and T J McBre J Urol 1926 xvi 85 Multiple diverticula of the bladder with vesseal atony and urethral bladeral reflux cystostomy extingation of a large diverticulum recovery marked functional improvement C Vikansax 7 di utol méd et chir 1916 xx; a Contribution to the problem of contracture of the need of the bladder H RUBERTIUS and O SCHIWAKZ I UTO.

1926 vv 461 [411]
The tugone of the bladder as a factor in urmary obstruction with a report of cases and a discussion of the opera

tive treatment I HINMAN and M B WESSON Surg Gynce & Obst 1926 kln r Two cases of chronic incomplete retention with vesical ditention and symptoms of urinary infection from an un

usual cause R Landis ar Semana m/d 1926 xxxiii 936 Cathetersm and its complications J J Gazzoto Rev méd Lat Am 1926 xi 1419 A foreign body in the bladder complicating postoperative

convale cence V C Professev J Urol 1926 tv 587
A vesical calculus with a nucleus of paraffin wax L H

Snaw Lancet 10 6 ccut 225

The organism associated with specific infectious cysitis and pyelonephritis of cows F S Jones and I B Little J Exper Med 1920 the 11

A ca e of herpes zoster of the bladder I E DuBots
J Urol 1926 ry 583

Dramage of the unnary bladder A RANDALL Ann Surg 1936 lxxxiv 120
The pathology of the female urethra R V Day Urol

& Cutan Rev 1926 XXX 413
Pleomorphism of secondary invaders in urethral infection simulating the gonococcus C C Syllifor Wiscon

sin M J 1926 xxv 334

The treatment of acute gonococcus urethritis in the male

A E May York State J M 1926 xxv1 642

The use of heat and cold in the urethra Aysacuer and Papri J durol med et chir 1920 xxt 178 [412]
Treatment of structure of large caliber with holimann dulators H L Ayrwares Practitioner 1926 cxvu 52

A suppurating para urethral pocket communicating with the urethra in a woman Guror and Lengertesu Bull Sou dobst et degynée de Par 1926 vv 304 Acute dilatation of the stomach after urethral trauma

tism M Paris: J d urol mid. et chir 1926 xv 533 Modifications of flap urethroplasity in perincal fistula of the urethm R Borrasschia Arth ital diviol 1936 in 256 Precancerous syndrome of the male external genitalia ALVAREZ SANIS DE AJA 1 rog de la clin Madrid 1926 tv 684

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\*\*Y 593
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The treatment of genital tuberculosis in the male by means of epididymectomy Bastos Siglo med, 1926 Ixxiu 385

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méd , 1926 xxxu1 1216

Vesiculography by means of iodized oils W T BEL FIELD and H C ROLNICK J Urol 1926 TV1 73 The treatment of gonorrhocal arthritis by vasotomy

G GREENBERG Med J & Rec 1926 CVII 6 Torsion of the testicle M MELTZER J Urol 1926 TV

Double testicular ectopy Péraire Bull et roem Soc d chirurgiens de Par 1926 xviii 346

Subacute orchitis of adolescence from torsion of a sessile hydatid of Morgagni Olay and Molcher Bull et mem Soc nat de chir 19 6 lu 586

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1926 VIII 643 Osteomyelitis variolosa report of a case observed during the acute stage E J HUENEKENS and L G RIGLER J Am M Ass 1926 IXXXVII 293

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505 533 56r, 593 6 5 The economic and social aspect of venereal disease G F Mckgu and P G Suffit Ohio State M 1, 1026 xxu 601

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Vaccines and proteins in the treatment of gonorrhoeal and other venereal lesions J BARRIO OF MEDINA Rev méd de Sevilla 19 6 thy 5 Clin y lab 1926 xii 399

Chromotherapy in the treatment of gonorrhoea A P MARTIN Siglo méd 1926 lxxiii 580

Acridinotherapy in gonococcic affections H JAUSION M VALCEL and E Dior Presse med Par 19 6 xxxiv, 804

A treatment of chronic gonorrheea F TRINGA and G FOREMAN Med J Australia 1926 II St

The significance of blood in the urine D E LISEN ORATH J Michigan State M Soc 19 6 TXV 344 The diagnosis and treatment of hæmaturia

YOUNG Atlantic M J 19 6 TXIX 587 [414] The role of constipation in colon bacillus infections of the uninary tract W R CHYNOWETH I Michigan State M Soc 1926 XXV 341

Postoperative colombacilluria the incidence in 130 cases following surgical procedures C C I INKERTON Arch

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1026 TIX 420 Considerations on sterility | I L HENROTAL Bruxelles

méd 1926 vi 1929 A review of prological surgery A J SCHOLL E S JUDD L D KEYSER G S FOULDS and J VERBRUGGE Arch

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ENARD and DAVOICNEAU Bull et mem Soc méd de bôp de Par 1926 xIn 807 Multiple myeloma clinical history necropsy patho logical studies E H FUNK and J R PAUL Med Clin

N Am 196 x 8s A case of traumatic myogenic contracture V Scarping

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Myositis ossificans traumatica R W Fot TS Med Herald & Physiotherap 1926 xlv 180

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Introductory considerations in the study of cartilage in junes W W LASHER J Bone & Joint Surg 19 6 viii 651

Achondroplasia with unusual features FES WILLIS Proc. Roy Soc Med Lond 1926 xix Clin Sect 45 Normal and abnormal epiphyses C E. Koevig North

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Radiation in the treatment of bone tumors A Solland and W E Costolow Radiology 1926 vii 36

A case of familial zanthoma of pseudo gouty form A GILBERT E CHABROL and H BÉNARD Bull et mêm Soc

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Clin Cancer Research 1026 II t Misconceptions regarding the relation of heredity to can cer and other diseases studies in the incidence and inher stability of spontaneous cancer in mice—twenty third report M SLYE J Am M Ass 1926 lxxxvi 1599 [421]

Micro organisms of cancer and sarcoma F PURPURA Policlin Rome 1926 xxxiu sez chir 263 The repeated inoculations of animals with so called

cancer organisms S L WARREN and H & PEASE Am J M Sc 1926 class 820 [421]

The pathological diagnosis of cancer k M Lynch South M J 1926 x1x 284 [421 [421] The prevention diagnosis and treatment of cancer in its earliest stages J C BLOODGOOD South M J 1926 us

Modern tendencies in the treatment of cancer 1 5 HORSLEY South M J 1926 xix 292 [421]
The differentiation of cancer tissue J E Dayts Am [42]

J Obst & Cynec 1926 XII 29
Industrial liability for cancer A R KILGORE and C F

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I ocal eosinophilia in cancer \ J I AVLOVSKY and \ WIDAKOWICH Semana med 1926 XXXIII 1265

Adenocarcinoma of the sweat glands G CALISSANO Arch ital dichir 10 6 xv 578 Multiple basal celled carcinoma L SAVATURD Proc

Roy Soe Med Lond 1926 xiv Sect Dermatol 57 The conquest of cancer E H Skinner J Iowa State M Soc 1916 vvi 305
The treatment of cutaneous cancer R JARAMILLO and

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General light treatment in surgical tuberculosis O CHIEVITZ Acta radiol 1926 V 143 [423]

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E Kyrin Klin Wchnschr 1926 v 367
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# EDITOR'S COMMENT

IN an interesting study of two large series of cases of lymphoblastoma by Minot of the Huntington Memorial Hospital, Boston (p. 508) and Designatins of the Mayo Clinic at Rochester (p 500) one is struck by the similarity hetween the two groups, both as to the duration of the disease and the results of treatment. A further parallelism between two types of lympho blastoma-Hodgkin's disease and lymphosarco ma-is brought out by Desiardins who notes that in a series of cases reported in 1923 the average duration of the two conditions when untreated was almost identical, and that in a second later series the average duration of the disease was thirty-eight months in the Hodgkin's group and twenty eight months in the lymphosarcoma group Both authors agree that radiotherapy does not notably affect the average duration of life in cases of lymphoblastoma, although it is of marked value in alleviating distressing symptoms and in individual instances it has shown a marked effect on the disease process

The management of gotter cases as carried out at the University Hospital in Philadelphia and the importance of follow up studies in this root cases are discussed in two helpful papers by Frazier and Mosser (p. 45°) and by Clute of the Lahee Clime in Boston (p. 45°). The fact that Frazier and Mosser have been able to secure the manimal benefit of todine by the administration of 10 minims daily for from seven to ten days is interesting in view of the fact that larger dose, administered for a considerably longer period of time are frequently required in other localities to secure remissions which will permit of operation

The interest in the surgery of the sympathetic system is reflected in a number of papers which are reviewed in this month's issue of the Abstract Brown of the Mayo Chnic (p. 455) and Davis and Kanavel (p. 460) agree on the necessity of removal of the lumbar sympathetic chain if interruption of the vasoconstricting impulses to the blood vessels of the lower extremity is indi-Ranson (p 458) emphasizes the ana cated tomical explanation of this fact in pointing out that the innervation of the blood vessels of the extremities is through the spinal nerves. Cutler and Fine's report of seven cases of sympathec tomy for angina pectoris is a helpful contribution to the literature on the surgical relief of angina

Recognition of the importance of gastritis as a factor in the production of gastric ulcer and as a potential source of disaster in the surgical man agement of ulcer is again stressed by Gregoire (p. 471) and Bohmansson (p 471) The latter ex presses the opinion that restoration of normal gastric mobility and of the normal pathway through the duodenum by the Billroth I operation gives the best clinical results in cases of gastric ulcer Walton on the other hand (n 472) advo cates wide wedge resection for ulcers located on the lesser curvature with temporary occlusion of the pylorus and posterior gastro enterostomy He suggests that the gastro-enterostomy opening be made as close as possible to the greater curva ture and so placed that one half of the opening hes proximal and the other half distal to the line of excision of the ulcer Lahey (p 4,0) empha sizes the diagnostic importance of the medical management of gastric ulcer particularly if carcinoma is suspected. He believes that if symptoms are not relieved and if the \ ray de fect and occult blood are still present after a week or two radical operation should he performed

Rufanoff s experimental studies in acute pan reatitus and the part played by cholecystitus in its development (p. 478) emphasize the importance of the combination of obstruction and infection. He believes that acute hemorrhagic pancreatitis usually develops after infected bile enters the pancreatic tissue in the presence of pancreatic duct obstruction. He mentions the value of anastomous of the hile passages to the gistro intestinal tract in the presence of chronic pancreatitis with compression of the common duct—a point emphasized by Miller's report of three cases of cholecystodiodenostomy (p. 477) in cases of common duct obstruction

Mentzer's interesting study of choice; stitus and choleithiasis. (p. 476) indicates that one of the important factors stressed by Rufanoff in the ethology of pancreatitis—infection of the bile passages—is present much more frequently than is generally, considered The fact that in 66 per cent of 612 consecutive autopsies there was gross evidence of gall bladder disease and in 75 per cent pathological changes on microscopic examination emphasizes again the major importance of infection of the bile passages in the production of morbidity.

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# INTERNATIONAL ABSTRACT OF SURGERY

DECEMBER, 1926

# ABSTRACTS OF CURRENT LITERATURE

# SURGERY OF THE HEAD AND NECK

# EVE

Clapp C A Metastatic Carcinoma of the Cho roid with the Report of Two Cases Four Eyes 4m J Ophth 19 6, 3 5 17 513

Metastatic carcinoma of the choroid is rare but is probably not always reported. The author reports two cases In one, a breast had been removed nine years previously, and in the other a medullary carci noma bad been removed from a breast two and a half years previously Neither case was seen until after detachment had taken place. In one case an eye was removed sectioned and subjected to a complete pathological examination

VIRGIT, WESCOTT, M D

Scarlett H W New Vessel Formation in the Vitre ous Am J Ophth 19 6, 3 5 1x 521

New blood vessel formation in the vitreous is usually attributed to hæmorrhage or exudate due to lues or tuberculosis The author reports a case in which new vessels were found arising from the disk and extending out into the vitreous in the form of a twig of a tree, the usual signs of bæmorrhage and exidate were absent, and the general physical examination was negative. However, the patient had bad some blurring of vision previously, which had been attributed to intra ocular hæmorrhage VIRGIL WESCOTT M D

Evans J N Angioscotometry Am J Ophth 19 6 3 \$ 1x 380

This is the most enthusiastic report that has appeared on the subject of plotting the scotoma caused by the shadow of blood vessels Others have expressed doubt as to the possibilities of this type of investigation or have reported failures. The author describes his method of examination which is quite He makes the significant statement,

The width of the scotoma, either localized or gen eral did not necessarily correspond to the apparent width of the vessel mapped

The theoretical considerations are discussed at length, and errors in previous work are explained VIRGIL WESCOTT M D

# NOSE AND SINUSES

Turner A L and Reynolds F E Suppuration in the Ethmoidal and Sphenoldal Sinuses Cavernous Sinus Thrombosis Death Autonsy J Laryngol & Olol 1026, xl1, 447

The authors report a case of cavernous sinks thrombosis basal leptomeningitis, and subperiosteal orbital abscess. The findings made at autopsy and at microscopic examination of serial sections through the diseased area indicated that inflammation of the mucosa of the ethmoidal and sphenoidal air sinuses extended to the walls of these sinuses inducing a chronic necrosis and in penetrating the walls in fected the red marrow Later, it passed by way of the diploic veins to the cavernous blood sinus giving rise to acute septic thrombosis The septic thrombus in the blood sinus then extended along the tributary yeins into the orbit dura mater, and pia mater and an acute purulent leptomeningitis developed

In a review of hospital material it was found that spontaneous intracranial complications occurred in o 6 per cent of the cases of accessory sinus disease and in a per cent of cases of aural disease source of the infection was the frontal sinus in 61 per cent, the sphenoid sinus in 17 per cent the ethmoids in 14 per cent, and the maxillary sinus in 3 per cent In descending order of frequency, the most common complications were brain abscess acute leptomenin gitis and infective thrombosis of the cavernous blood sinus MANFORD R WALTZ M D

Fraser R H Iodized Oil (Lipiodol) in Otolaryn gological Diagnosis—Opaque Injection Study of Thirty Five Maxillary Sinuses J Michigan State M Soc 1926 XXV 10

Fraser reports thirty five cases in which a mixture of one part of reduzed oil and two parts of petrola

tum was used in the roentgenological study of the manulary sinuses. The sinus was punctured with a needle, all discharge present was washed out and air was then introduced to force out all of the solution. The head was then turned so that the ostium was uppermost and enough of the oil mix ture was injected to fill the cavity. When the cavity was full, resistance was felt or the phary ngo scope showed the oil coming through the ostrum. With the head in the same position lateral and postero anterior stercograms were made.

postero anterior stereograms were more ...
In disease the mucopeneosteum widens. The cavities to be considered in the diagnosis are the cavity in the bone the cavity as filled and the filling defect. In the cases of suppurative manillary smussifus which are reviewed the mucopenosteum thickening ranged up to rr mm. When there is no tendency toward hyperplasia any plan of continuous acration and dramage gives relief. A filling defect of 60 per cent decreases the likelihood of recovery under conservative surgical treatment. In chrome hyper plastic mavillary smussifus the maximal uniform hilling defect capable of resolution without curet taxe is probably under 40 per cent.

The method described may be used to determine the presence of abnormalities of the naturum or its invasion by dental cysts and other pathological processes the type of the pathological process acute influmnation the type of treatment neces sary and what must be accomplished in chronic hyperplasia.

Maxrone R Wartf M D

#### Shea J J The Surgical Treatment of Acute Sup purative Paranasai Sinusitis J im M iss 1926 lvxxvii 162

The author points out that the surgical treatment of acute suppurative paranasal sinusities is of the emergency type and should be carried out with as thiet trauma as possible Drainage is be it obtained with rubber tubing in children the mavillars sinus is most frequently involved in maxillary sinusities. Shea obtains drainage by inserting a kinde or trocar into the antirum under the inferior turbinate and as far hack as possible then enlarging a window with a risp to accommodate a catheter inserting the catheter into the antirum over a trocar and using suction or irrigation.

The severe pain of an acute frontal sinusitis is due to the vacuum that is formed behind the escaping discharge. This may sometimes be overcome by alternate suction with gentle pressure or by passing a frontal sinus catheter through the frontal duct or secting the anterior end of the middle turbinate. In cases in which rupture is feared Shea uses a Lynch actual for the control operation increasion opens the sinus and language that the succession of the sinusian control of the sinusian control of the charge of osteomyelius of the frontal bone the anterior wall should not be attacked during the acute stage.

Sphenoiditis in children is diagnosed from head ache and the \ ray findings Shea recommends for

such cases irrigation with Dean's antral irrigating apparatus

Acute ethmoditis is rare in children but when it occurs it usually ruptures into the orbit and requires external drainage. In adults the cells should be punctured and drained by suction or ringation. The middle turbinate should not be touched. In the after treatment the channels should be kept open and protten silver salts employed.

This report was discussed by Lynch Skillern Lewis Shambaugh and Pratt Most of the views expressed were not in accord with those of the author the consensus of opinion being that operation is rarely necessary in acute sinusitis in children Mayropp R Wattz MD.

Mayropp R Wattz MD.

MIANFORD K WALTZ

### моптн

Mauchire and Darcissae Noma with Perforation of the Cheek After Mereury Injections Fliation of the Jaw Minitiple Operations and Prosthe sis (Noma ace perforation de la joue aprè injections mercuriclis construction de la michoire opérations multiples et profibée) Bull et mêm See net de chir 1906 lli 53

The authors report the case of a noman who following a series of mercury injections developed a severe innecturial stomatitis resulting in a perforation of the check measuring 5 pb 3 cm and complete constriction of the law. The right ascending ramss of the inferior martilary was fixed by cultar consciousness of the following the series of the mercury of the following the mouth and on the right safe of the inferior state of the inferior maxiliary. The patient was in a condition of serious cachetua very emacisted and anable to speak. She was fed through the perforation in the check. A period of six months was necessary to render the condition sufficiently good mechanism.

tion in the cheek. A period of six months was necessary to render her condition sufficiently good for operation.

As the ascending ramus was so firmly fixed by cicatricial bands and retractile myositis of the internal and external masseter muscles this fibrous block was left intact and a Rizzolo oscetomy was

shock was left intact and a Rizzol osteotomy was performed in front of it to establish a new or arthrost of the borzontal ramus Fibrous tissue was inter posed between the joint surfaces Darcisace sappa ratus with a cramofacial support (shown in an illus tration) was applied to keep the teeth apart and to correct the laterodevation of the inferior mavillary. The lateroversion was corrected in six months

Internal dehndement was then performed in several stages to free the mucous bands on the naner surface of the maxilla and liberate the tongue from the floor of the mouth. To prevent recurrence rub ber pads were placed between the freshened surfaces. The perforation in the check, was then closed by Italian autoplasty with the use of a flap from the naner surface of the arm. Since the operation there has been considerable retraction of this flap which causes asymmetry when the mouth is opened but

the patient is now able to open her mouth to an extent of 4 or 5 cm without lateral deviation and the relation of the two maxillæ to each other is normal. The patient's speech can be understood and her eneral bealth is good.

AUDREY G MORGAN, M D

# PHARYNX

Razemon H A Septum in the Nasopharyngeal Space (Le clois-connement du cavum) Arch interna' de laryngol 19 6, xxxii 396

Since 1908 the author has noted that patients operated upon for adenoids or deviations of the eptim sometimes continue to complain of nesal obstruction after the operation Careful evamina tion in such cases has shown that the nesal septum was continued into the nasopharviax, dividing the latter more or less completely into two spaces and decreasing its capacity and the height of the choanse. The septum consists entirely of bone or of bone and a fibrous membrane

Moure and Brindel state that occasionally the vault of the na-opharynx is not plane or slightly concave and that the space may be divided from in front backward by the vomer which forms a orit of median ridge. Comparative anatomy shows that in anthropoid apes the pharvingeal tubercle is replaced by a ridge, and in certain other species of animals a membranous septium is found in the nasopharynx.

Razemon has seen the septum described in twenty eight patients including adults and infants and members of both exes. He finds that removal of the septum facilitates breathing and improves the general condition. He has operated upon twenty patients ranging in age from 9 to 33 years and hareer noted any ill effects from the operation. He performs it under local anaesthesia or ethyl chloride anaesthesia supplemented by local anaesthesia.

Buef histories of eight typical cases are reported

AUDRES G MORGON ND

#### NECK

Puccioni L. Histological Changes in the Thyroid in Animals Injected with Extract of Corpus Luteum (Modificazioni Istologiche della tutoide di animali intertati con estratti di corpo luteo) Ri itali di giner. 19 6 in 273

The author performed experiments on animals to determine the changes brought about in the thyroid by the intraperitoneal injection of extract corpus luteum. The experimental and control arimals were of the same weight and age. The corpus luteum of cons was used in most cales but in a few the extract was oftained from human ovaries moved at operation. An amount of the extract could to 0 50 gm of fresh organ vas given daily for from twenty to thirty days.

The weights of the experimental and control arimals and the weights of their thyroids are given in tables. The animals lost weight rapidly even

after they had begun to eat a normal amount of food following the initial anorexa. The thirods increased considerably in weight and presented hyper.emia and dilatation of the vessels. There was an apparent decrease in the size of the individual vesicles which was due not so much to a true decrease as to an increase in the size of the cells which tended to become cylindrical and occupy a large part of the vesicle. There were numbers of new formed vesicles with walls made up of cylindrical epithelium.

The colloid was decreased in amount and density and was not homogeneous as it is normally, but finely granular. Many vesicles showed epithelial cells scattered in the colloid and others becoming detrached from the hasal membrane. In many areas the cell wall between two vesicles could be seen in the process of breaking down and allowing the two vesicles to coalesce into one. There was a consider able increase in the fucbsinophile granules both in the body of the cells and in the colloid. The lipoid granules were also increased. These are phenomena which indicate hyperfunction of the thy fold.

The author takes up the question as to whether this hyperfunction is due to a specific action of the corpus luteum hormone or to a toruc action of the certact by virtue of its being a foreign protein. There are physiological and clinical facts which indicate that thyroid function is stimulated by corpus luteum and other facts which indicate that the thyroid like other endocrine glands is capable of hyperfunction in toxic or toxic infectious conditions of the organism. Puccioni concludes that the hyper function of the thyroid following the injection of extract of corpus luteum is due partly to specific corpus luteum is due partly to specific corpus luteum hormones and partly to the toxic action of the extract itself

AUDREY G MORGAN M D

Pamper! R The Genesis of Intralary ngotracheal Struma (Zur Genese der intralary ngotrachealen Struma) Zischr f Hals Nasen u Ohrenheilk 1926 xiv 173

The author reviews forty-one cases of intra laringotracheal struma including one of his own and forty reported in the literature

This condition is characterized clinically by dispince and attacks of suffocation and occurs most frequently in women of middle age. Its cause is a tumor covered by normal mucosa which is located in the upper respiratory passages. Under certain circumstances the diagnosis may be made before operation by lary ngoscopic and X ray examination.

The treatment of choice is lary ngofissure or tracheofissure followed by extirpation of the tumor and the introduction of a cannula. The cannula may be removed after eight days. The author warns against treatment with iodine and endolaryngeal and endotracheal procedures.

In Pamperls case the diagnosis was not made before operation although the laryngoscope revealed below the vocal card a hemispherical tumor the size of a nut which was covered by normal mucosa exterded out f om the posterior wall of the traches and in the N ray picture caused a blight forward of the posterior traches wall. The pittent was a woman 30 year of age who stated that since she was 6 years old she had had p nodes attacks of dyspiness chiefly in the spring and fall and who showed a light enlarg-ment of the upper pole of the left lobe of the thyroid. She had no difficulty in swallowin.

in swallowing.

As receiving of the upper portion of the left lobe of the thyroid failed to rehave the dyspence about the suchro performed a low trachestomy. With his fing r inserted through the incision he then pall pated a soft turn or the airs of a small mut under the origing of the incision of the right side. He secondaryly proposed the incision to the air small mut under the original to the summary of the turn of the

The author does not agree with you Bruns that this type of tumor is due to the liberation of em bryological perminal cells. He believes with Paltauf and Binds bith that it is caused by the infiltration of throad it was into the larny and trachea. In support of his theory is the fact that the base of the tumor is broad if you Bruns theory were correct the neoplism would probably have a narrow base and would be on a more polyhood character.

Jastrau (?)

# Holmholz II F Exophthalmic Gotter in Child hood J 4m II is to b lexent 157

Between January 1 1921 and March 1 1936 birty exes of exuphthalmic gover in children 14 years of 1921 or under were observed in the Mayo Clinic The duration of the symptoms which varied from xi months to eight years indicated that fre quently the condition is not recognized early or its seriou ness is not appreciated.

Nervousness was given as the first symptom in hirtern cases and as the coord symptom in seven cases. Ecopthalmos was definite in twenty five mid in one of the remaining five the characteristic tare was pre-int. The stare is fully as important as the evophthalmos and may be followed by evoph thalmos. Tachy archa was present in every case other symptoms noted were enlargement of the thyroid bruit over the neck hyperbulgosis tremor loos of weight polyphagia, wakness of the quadri ceps muscles. gastro intestinal disturbances and dyspinea.

Metabolic rates we e determined in all but two cases. The birst determinations were frequently high but as soon as the child became used to the test, sat sfactory readings were obtained. The metabolic rates were markedly increased. The effect of iodine in reducing the basal metabolic rate was very striking. In a few cases the improvement was so marked after the administration of iodine that thyroidectory was unnecessary. In some cases the administration of iodine was continued after on ration.

The diagnosis of exophthalmic gouter in childhood is based on (if y symptoms in licating, an increase in metabolism such as tachycardia excessive perspiration and loss of weight in spite of an adequate food intake (a) tone symptom such as nervousness hypermrability fatigue, exophthalmos and the gastro intestinal crisses, (a) enlargement of the thy road and a focal bruit especially in the region of the superior thyroid artery (a) increased metabolic rate and (5) the reduction of the rate and rapid disappear ance of tone symptoms after the administration of laree doese of todine

Mynerthyroidism may occur in children as a result of hypertrophy and hypertplasa of the thyroid and after the administration of large doses of desiccated thyroid or thyroid. The introduction of the use of poduce by Flummer in the tentimer of coupling the power as been a great advance. This treatment has resulted in surprising improvement in the putents condition and has eliminated the neess sty of practically all prefumency operative pro

Of twenty four patients operated on two died one in crisis twenty four hours after the operation and the other from bronchopneumoma, one week after the operation

#### Cattell R B The Elimination of Iodine in the Urine in Normal Patients and in Exophthalmie Goiter Basion If & S J 2026 excy 60

Although relatively large quantities of sodine are given in the treatment of exophthalmic gotter only a small fraction of the drug can be stored in the thy roid gland. Indine is treatly absorbed from all mucous membranes. After single doses it is completely absorbed in five hour Most of it is climinated in the unine and faress but small amounts in the unine and fares but small amounts and other hours and all the single control of the small amounts stored in the thyroid unless the gland is hyper plastic.

After single doses of todine the elimination in the urine begins in from ten to twenty minutes and reaches its maximum in from one and one half to three hours. From 66 to 80 per cent is excreted in twenty four hours. Traces persay for several days

Determinations of the effect of iodine were made by the author in the cases of six normal persons and forth mae persons with exophthalmic goiter. Thirty minims of Lugol's solution representing approximately 250 mpm of todine were given daily

In the subjects without gotter no unfavorable effects from the drug were observed. There was no change an the rectabolic rate or the pulse rate. The amount of sodine excreted in the urine varied considerably from day to day but in general the daily total output tended to increase on a constant

In the cases of exophthalmic goiter the output of iodine in the urine was less than in the cases of nor mal persons especially after operation A sharp rise during the first few days after the institution of the treatment was followed by a gradual fall and maintenance of a lower level

The normal thyroid contains about 15 20 mgm of iodine It therefore seems improbable that the daily administration of 30 m of Lugol s solution is neces sary for the desired effect. In view of reports of occasional unfavorable effects from large doses and of favorable effects from much smaller doses, and in view of the large quantity of the unutilized drug which is excreted almost immediately in the urine the smaller dosage appears to he preferable drops of Lugol's solution daily has given satisfactory results. However, it is possible that in the use of larger dosage more of the jodine may be taken in to the gland temporarily with some benefit In the light of our limited knowledge of the subject at the present time, it seems necessary to give an excess of the drug DOV L HUTCHENS, M D

Richardson, E P The Value of Iodine in the Surgical Treatment of Exophthalmic Gotter Boston M & S J 1926 exces, 1066

The administration of iodine in exophthalmic gotter is usually followed within a day or two hy a lessening of the restlessness and emotional in stability Slowing of the pulse and a fall in the metabolic rate become apparent vs a rule within three days and reach their maximum within from eight to fourteen days. The vasomotor symptoms, the characteristic stare, and the nervous tension diminish. The patient feels hetter and has a ten dency to gain weight Apparently in no case is the condition made worse hy a short period of this treatment.

Cattell has shown a remission of the hyperplastic changes in the pland and its return toward a resting state. Chemical examination shows an increase in its iodine content. Although the administration of todine is not a satisfactory treatment for exoph thalmic goiter, it brings about a remission of the condition so that operation can be performed with less danger of a stormy postoperative towe reaction.

The indiscriminate use of iodine in the cases of patients with large thyroids is to be avoided as it may do harm rather than good. In adenomatous gotter iodine may stimulate the gland to toruc activity, and thereby increase the operative risk and produce organic damage.

The patient should he seen both before and after ioning its given in order that an accurate diagnosis of the type of noter may be made. As the effect of the withdrawal of the iodine cannot be predicted, serious toxicity may develop if the patient is not seen again.

For the past three years, in the Massachusetts General Hospital, Boston, Lugol's solution has generally heen administered in a dosage of from 15 to 30 minims daily and operation performed when the maximum iodine effect has been obtained

Richardson emphasizes the fact that although the administration of iodine represents a decided advince in the surgical treatment of exophthalmic gotter, it does not raise the patient's resistance to normal and therefore great cree is necessary in judging the scriousness of the individual case and in determining whether a single or multiple stage operation is indicated. Anymon F Sava, MD

Frazler C H and Mosser W B A System of Control and Treatment in the Toxic Goiter 1nn Surg, 19 6 lexxis 51

At the University Hospital, Philidelphia every patient with gotter is registered in a Thyroid Clinic, the officers of which are representatives of the medical surgical, and X ray services. Such an organization has the advantage of composite opinion, protects the patient from individual prejudices, and constitutes a means by which impartial statistics may be accumulated.

It is believed that at the present time surgical treatment offers the patient with exophthalmic spiter or toric adenoma by far the hest hope of recovery. Medical treatment is much less effective and X ray treatment is curative in only a small number of eases

In the University Hospital every patient with toric goiter is subjected to a careful study by representatives of the various specialties and after the completion of a routine investigation in the Thyroid Clinic is tracted according to the consensus of opin ion of the composite group. It is the custom also to have the internist from the Thyroid Clinic see every case at frequent intervals both hefore and after operation particularly for the care of avardact, renal or gastro intestinal complication.

Every torus patient is treated by the anost association technique and given absolute physiological rest Mild sedatives are prescribed as indicated. In selected cases to the is administered as a specific. In the anost association technique, the patient is kept in ignorance of the fact that he is to be operated upon or is not informed of the time of operation. Mental and psychic disturbances are avoided. As a result, he withstands the operation better and the immediate postoper time reaction is less seyere.

Physiological rest is one of the most beneficial pre operative measures. It causes a gradual decline in the pulse rate and a corresponding decline in the basal metabolism

In cases of evophthalmic goiter the pre operative administration of soline is a routine measure. Its effect is remarkable, but is transient and the maximal improvement caused by it can be determined only by clinical observation. In general, this is reached after the administration of 5 minims of Lugol's solution twice a day for from seven to ten data. After this period solution is either of no value or harmful. Benchical results from Lugol's solution.

an s dom be duplicated if operation is delayed and no case of evophthalmic gotter has been permia nently benefited by todane. Iodine is not curative. It is of value chiefly because by bringing about a transient improvement, it alfords an opportune time

for surgical intervention
In cases of town adenoma todine is often beneficial
but the advisability of its routine administration is
rendered doubtful by unfavorable reactions in some
cases. Todine should never be given in a case of non
toxic or toxic adenoma unless the patient is in a
hospital being prepared for operation. Its indiscriminate use in cases of non toxic adenoma has
alarmingly increased the includence of induced hyper

thiroidism. In the Thyroid Clinic the date of operation is selected after the patient has been at absolute phisiological rest for several days at a time when the pulse rate basal metabolism and body weight have finally become stationary following steady im

provement
The operation of choice is bilateral subtotal the residentism. but various factors often demand a series of operations for the desired effect. While indime lessens the postoperative reactions it does not entirely prevent unfavorable reactions in well advanced or complicated cases. In young persons with modificately advanced disease who restet favor.

ably to rest and iodine the complete operation is uniformly successful

In the more advanced cases of older persons with a high basal metabolism emacation and cardiac incompetence who do not react promptly to physic logical rest and iodine; the choice of primary operation rests between unlateral lobectomy or hem thy roudectoms and bipolar logation. If the reaction is only moderate following hemithy roudectomy, the second lobe is removed after forty eight hours. When the reaction is severe the second operation is postponed if necessary for several weeks until the weight basal metabolism and pulse are saus factors.

Ligation reserved for very advanced cases. This procedure gaves temporary but often remarkable in procedure gaves temporary but often remarkable in procedure gaves the patient retrieval of the second strge operation which may be a subtotal throudectomy or a hemilityroidectom. Occasionally unitateral polar ligation followed by ligation of the opposite pole them by hemi thyroidectomy and finally by subtotal thyroidectomy are the various steps found necessary.

In cases which are regarded as inoperable the injection of boiling water or alcohol has been found

of temporary benefit

After operation the anoco association technique is continued until the immediate shock has subsided Water is given liberally and morphine is sided Water is given liberally and morphine is daministered at regular intervals for twenty four hours. The administration of rodine is continued until the danger period is passed. Postoperative thyrotoucosis is rare. If a moderate toxic reaction occurs it is controlled by the administration of large quantities of flinds an increase in the quantity of iodine blood transfusion and the application of ice bags

Since the use of ordine the mortality in the Thi roid Clinic has been materially reduced. Previous to 1920 the mortality in touc cases averaged 27 per cent whereas since that time there have been only two deaths in 262 operations a mortality of only 0.5 per cent. DOWN HITTERESS M.D.

Clute H M Hyperthyroidism Persisting After Thyroidectomy The Accessity for Postopera the Examinations in Toxic Golters Surg Clin \ 1m 1026 \times 1691

It is believed by the workers at the Labey (Inne that all patients treated for primars hyperthyroid ism should be subjected to reperted chineal eximinations and metabolism determinations during the first year after thy production. In at least 95 per cent of such excess both clinical and metabolic evidence of cure will be found from two to four months after the operation or much evilier.

The presence of chincal evidence of persisting by pertbyroidism and an elevated basal metabolic rate four months after the operation generally means that too large a piece of hy perplastic thyroid tissue is still present Lugol's olution may be given in such cases but it must be borne in mind that any improvement in the symptoms that may follow will be only temporary. In Clutes opinion hyperthy roidism per isting six months after operation is a positive indication for the further removal of thy roid tissue.

Frugoni C Scirnoge V and Comolli A Chronic Tetany in Adults and the Transplantation of Human Parathyroids by the Method of Voronoff (Tétane chronique des adults et transplantation de parathyroides humaines selon la méthode de Voronoff) Prestre med lar 1036 vyvv 355

The authors report a case of tetany in a man az pears of age. Two hours after a meal of green prunes five years previously the patient was seared with acute gaste onterties associated with an attack, of tetuny lasting for three days and characterized by partial cramps of the hands, painful rigidity of the entire arm with flevion of the forearm and ub duction of the upper arm spasmodic rigidity of the lower lambs with the feet in the club foot position confraction of the abdominal musicles respiratory data with operations, diplopina and locking of the interthal times the tongue was wounded by the eight.

Two months later another attack occurred and thereafter the attacks were so frequent that the patient was often in the hospital Sometimes they were separated by intervals of only two or three hours. One night there were four They varied from slight ones to very serious ones with general convulsions and transitory. Joss of consciousness Occasionally the putient would fall and night his occasionally the putient would fall and night his

Examination showed moderate exophthalmos and nystagmus When the patient looked to the right. the left eye showed internal strabismus, and when he looked to the left the right eye showed a similar Pressure over the point of exit of the fifth cranial nerve caused convergence of the eve halls and a diminution of vision. The lips were swollen and one tooth was broken The Chvostek sign was markedly accentuated At times the patient complained of dysphagia and a slight spasm of the glottis with a sensation of suffocation thyroid was negative Tapping of the muscles of the thorax caused energetic contractions Trousseau phenomenon was very active Flexion of the extended lower limb on the pelvis as in the maneuver of Lasegne caused a painful contraction of the entire limb and especially of the foot The blood Wassermann test was positive

The reaction to pilocarpine was very active and that to adrenaln was moderate. The electrical excitability of the facial nerve was o 8 to 09 ma and that of the cubital and median nerves 0.4 to 0.3 ma. Three determinations of the blood calcium showed 9.2, 87, and 9 mgm per 100 c cm

During the three months the patient remained in the hospital he had numerous attacks of tetany many of which were accompanied by true epilepti form seizures. The intravenous injection of calcium chloride (roc cm of a roper cent solution) on eight successive days lessend them temporarily. Vigorous antiluetic treatment was ineffective. The condition was diagnosed as chronic tetany and epilepsy.

Under local anæsthesia a parathyroid graft taken from an 18 var-old gri operated upon for diffuse parenchymatous goiter was transplanted into the tunca vaginalis of the testicle by the method of Voronoff This caused a sudden cessation of the tetany and reheved the epilepsy

The authors believe that the chronic tetany was due to either a luctic lesion of the parathyroids or a primary sclerosis of those glands hased on degenera tion or secondary hæmorrhage From the sixteenth to the twenty fifth days after the operation the te tany recurred, but then definitely ceased The persis tence of the Chrostek sign though it was greatly diminished indicated a remaining latent parathyroid insufficiency that the graft had not compensated The patient regained his general health and the ability to do active work. From fifteen to twenty five days after the operation the electrical excitabil it) of the facial nerve was o 8 to o 9 ma and that of the median and cubital nerves o4 to 03 ma Fifteen days after the operation the blood calcium was 94 mgm per 100 c cm. Five days later it was 108 mgm and eighteen days later 100 mgm The pharmacodynamic tests remained as before the operation On palpation a month after the opera tion the graft seemed to be unchanged. After five months it still retained its primary form and size and was fixed to the tissues

The authors state that when there is no surgical material available for such a graft, the parathyroids of a person killed by trauma or those of anthropoid ages may be used

Comolli considers parathyroid homografts pre ferable to heterografts. He obtains his grafts from stillborn infants or persons killed in accidents. In the cadaver, the parathyroid is easily confused with a drop of fat At operation it is distinguished hy its consistency and color Blood staining masks the tissues Comolli places the graft with fat in a sterile glass box, transfers it at once to the operat ing room and transplants it immediately into the tunica vaginalis of the right testicle local unasthesia a 7 cm incision is made which enters the tunica vaginalis. The testicle is then exteriorized and the parathyroid fixed with fine catgut on the mesial side of the testicle in the scarified mesial cul de sac of the vaginalis near the The catgut fastens only the small epididy mis masses of connective tissue and fat surrounding the parathyroid, it does not traverse the glandular tissue After closure of the operative wound the graft on the testicle is perceptible on pulpation WALTER C BURKET M D

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# New G B Carcinoma of the Laryns Unnesola Med 1926 ix 365

In spite of educational measures and propaganda concerning carcinoma many patients with extensive inoperable carcinoma of the larynx are still heing treated without a laryngoscopic examination. Such a state of rfigirs is lamentable, especially because the diagnosis of carcinoma of the larynx is usually not difficult and the results of early surgical treatment of the lesson are excellent.

Epithelioma of the larvny should be removed surgically. In the individual case the operation is determined by the situation extent and malignancy of the levon and the patient's general condition. The grading of epitheliomata formulated by Broders is a definite advance in determining the treatment advisable for such growths in the laryny as well as elsewhere in the body. The microscopic grading will sometimes determine whether the operation should be a thyrotomy or a laryngectomy. A low grade epithelioma of the vocal cord may be cured hy thyrotomy, whereas if the lesion proves to he an epithelioma gradid 4 microscopically, laryn gectomy may he preferable

New performs all major lary ngeal operations under pata-ertebral amesthesia, as advocated by Labat, Meeker, and Lundy This is a distinct advance over the previous general or combined general and local amesthesia. The amesthesia in most cases has been perfect, from both the operators and the patient's standpoint

When thyrotomy and excision are selected a median incision is made. The hyoid bone is then split with bone forceps and its ends are retracted. The thyroid cartilage is sawed through with a small handsaw, the wings being held with special lary ngeal forceps. The growth is then removed down to the cartilage. After tying of the larger vessels the wound

is closed. The cartilage itself is not sutured, but the thyroid hyoid membrane and the perichondrium are sutured with catgut.

When larvngcetomy is chosen a two stage operation is performed according to the technique used

by Judd
In the first stage a median line incision is made
from the symphysis of the jaw to the manubrum.
The hyoid bone is divided with bone forceps and
the cut ends are retracted. The ishimus of the thy
ord is divided and the lary ax and tractica are skele
tized. A piece of iodoform gauze is packed laterally
to the traches just below the circoid down to the
ecophagus as is done by Dinsmore but is not ear
includance of the traches. This gives as much protect
tion as is obtained when the gruze is earried brek of
the traches and is associated with less risk. The
margin of the skin is sutured to the traches with
chromic caterut about the second tracked ring at a

point just below where later a tricheotomy will be performed. The rest of the wound is closed losedly. After from four to five days the trachea is opened by a parallel incision made usually just below the ercond cartilage without injuring the tracheal rings. The isodoform packs on either side of the trachea are not chanced.

From eight to ten days after the first stage the laryax is removed from below upward and the pharyax is closed with two rows of chrome catgut satures eare being taken to secure accurate approvamation. The trackea is sutured to the skin with silk worm and dermal sutures and the rest of the wound is completely closed with categut and ilknorm

utures No drains are employed. A gauze dre sing is applied over the upper part of the wound to support the pharyox

The operative mortality in these cases is very low and the end results in the early eases are good

# SURGERY OF THE NERVOUS SYSTEM

# BRAIN AND ITS COVERINGS, CRANIAL NERVES

Rosanov, W Traumatic Epilepsy and Its Surgical Treatment (Die traumatische Epilep ie und ihre chirurgische Behandlung) lerhandl d 16 russ Chir Kong Moscow 1935 p 312

Eighty cases of traumatic defects of the skull are reported, of which thirty five required operation for cortical epilepsy

The nature of this condition and the reason why it develops in some cases and not in others with apparently the same type of injury remain unde termined in soite of the world war

The author believes that the endocrine glands have something to do with the occurrence of jack

sonian epilepsy

In Rosanov's cases the operative treatment is preceded by a systematic ionization treatment of the region of the sear on the skull. This is carried out with a ripercent solution of sodium nodiced at the cathode which is pressed directly against the scar. The anode moistened with physiological sodium chloride solution, is held against the opposite area on the kull. This treatment is intended to produce a dimmution, vascularization, and vacuolization of the scar by which the surgical removal of the scar will be made easier.

The cranioplast, is done at a second sitting eight days after the first. It is performed preferably with fragments from the tibia which are transplanted with the periosteum and subcutaneous fat the latter being placed directly upon the hrain.

In an experience of many years the author had a

failure from this method in only 17 per cent of the cases

In two cases the epilepsy was favorably influenced by the transplantation of parathy rough from a goat

hy the transplantation of parathy roids from a goat
Petrov (Z)

Brown A The Results of Hypoglossofacial Anas tomosis for Facial Paralysis in Two Cases Surg Gynec & Obst 19 6 xlii 608

Brown states that in the treatment of facial paralysis the hest results as regards nerve continuity and psychic control are obtained from anastomosis of the hypoglossal and facial nerves Frazier and Spiller give the three desiderata as (1) restoration of the normal contour of the face during rest (2) restoration of voluntary motion in the muscles and (3) restoration of emotional expression. The close relation between the cortical centers of the hypoglossal and facial nerves makes these nerves the logical ones to be used

The author reports two cases in which he employed this method of anastomosis. The hypoglossal nerve was brought to the facial nerve external to the posterior belly of the digastric. The discendens hypoglosis was sectioned and the central end sutured to the peripheral end of the cut hypoglossal. The result were fair

The operation is but the beginning of the treatment Complete cooperation of the patient is essential Massage once a day and faradism twice a day after the tenth day are useful aids. Early signs of returning function may appear in from two to three months. After this time, constant practice before a mirror is essential. The restoration of the toneries may be less susfactory but so of less im

portance

The first case reported was that of a woman 43 vessers of age who developed facial paralysis on the left side after the removal of a sarcoma of the middle ear followed by radium treatment two years previously. Two months after hypoglossofacial anastomosis she began to notice signs of returning function after faradic stimulation. A series of photographs show the patient before the operation and about five eleven, and seventeen months later. These demonstrate good restoration of fixial symmetry and voluntary motion with quite good return of emotional expression. Improvement is continuing

The second case was that of a gril 19 years of age who after a mastoid operation one year prevously developed paralysis of the portion of the left facial nerve supplying the angle of the mouth and lower face. The facial anastomosis performed was of the same type as that in the first case. After three months signs of heginning return of function appeared and have continued to date. The article in cludes photographs of the patient hefore operation and six months later. The results seem excellent.

The anatomical relations of the operation and the probable mechanism of regeneration and restoration of function are shown in illustrations

ALBERT S CRAWFORD M D

#### SPINAL CORD AND ITS COVERINGS

Lindblom A F On the Effect of Lipiddol on the Meninges Acta radiol 19 6 v 179

The subdural mjection of relatively large quantities of lipodol into rabbits gave rise to an acute leptomeningitis which was evidenced histologically by in infiltration of cells (mainly leucocytes) and usually subsided in two or three weeks. In one of seven rabbits it resulted in death. After the subsidence of the inflammation no histological changes were to be noted even when large quantities of lipid old remained.

After the intralumbar injection of from 5 to 10 c cm of lipiodol in man acute leptomeningitis

develops with a marked increase of lymphocytes in the lumbar fluid. The meningeal symptoms subside within two neeks after the injection.

Ebaugh F G and Mella II. The Use of Liplodol in the Localization of Spinal Lesions. II The Local and Systemic Effects of the Injection of Liplodol into the Subarachnoid Space. 4m J M St. 1026 clyst 117

The authors tudied thirteen patients in an effort to determine

1 The local effects of the injection of lipiodal—

mainly the duration of the asceptic meninging of any as determined by spinal fluid cell changes quantitative potein determinations and unitative phenomena found in the neurological examination. The general systemic effects of the injection

3 The length of time required for the hipodol to pas from the cisterin magna to the lumbar sac and whether any lipodol is hild back by the posterior roots folds or pockets of the arachnoid threeby leading to an inaccurate diagnosis of subarachnoid block

They obtained definite evidence that an a eptic meningitis was produced following the introduction of lipiodol into the spinal ubarachnoid spice Thi reaction however was of transient duration all of the patients recovering within a period of three days The occurrence of frequent bloody type in lumbar purcture after the in ection as peared to indicate a generalized congestion of the vessels. Four of the patients complained of pur in the leg- and in three cases there was a shaht merea e in the temperature following the injection of the drug Nausea and he idache were present in one case and a leucocyto us was noted in four cases. Most of the prtients showed some general restle sness In two cases there was evidence indicating that the hipsodol v as beld back by the posterior roots of the lumbar region. In two cales in which there was no subarachnoid obstruction the limited reached the end of the lumbar sac 4 few seconds after the insection STANLEY I SCIGER M D

Verga P and Dazzi A An Unusual Case of Race mose Cysticercus in the Spine (Di un rate case di cisticerco na emoso a localizzazion pinele) Foli din Rome 10 ( vitti er med 6.

The case reported in this article was that of a man of 50 versa wh had been addicted mee early vouth to alcohol and sevual excesses. At the age of 17 years he had gonorthear and at the age of 26 years he contricted syphilis. When he was 34 years old he began to have lannating pains in the lower limbs and later three were associated with a feeling of great weakness. Subsequently there was serual debility which progressed to complete impotence in the fall of 1923 constant urliary incontinence began. The patient was then so weak that he was searcely able to stand.

Examination revealed the Argvil Robertson sign Romberg s sign a zone of hypersthesia limited to the mammiliary region a faxia of the lower limbs and absence of the patellar and Achilles tradon refleves During the last few months of his life the patellar and skut manes greatly re mebling those of paresis viz delusions absence of emotional reactions failure to recognize his condition and pycho motor agittion. The clinical diagnosis was tabo Daresis.

Autopsy revealed a few costicerous costs scattered in the lumbar and dorsal portions of the spine a cystic mass in the ciuda equina and degeneration

of the posterior cords

There were certain differences between the symptoms in this case and tho e of symbility tables. The first distarbances of sensation were limited entirely to the lower limbs and remained so limited for twenty years while in tabes the affection of the lower limb is generally preceded by involvement of the hirst dorsat roots with gridle pain in the upper part of the timbs and the prodromal stage is much shorter of the rims and the prodromal stage is much shorter.

In the author's case there was atrophy of the muscles of the lower imbs which could not have been due to the reduced state of nutrition since it the latter had been the cause the other muscles of the body would have been affected. The degeneration of the posterior cords was irregular. This degeneration and that of the anterior cords was due to the localization of the cysts. The localization of the disturbances in the lower limbs and the gentral and vessed disturbances were caused by the cysts in the cauda equina. The amyotrophia of the limbs was due to attorphy of the cells of the squterior horn.

Tabes is not an independent distase but a clinical syndrome due to degenerative atrophy of the cord which may be caused by other toxins as well a those of syphilis. In alcoholism incotinism ergotism and pellagra there may be symptoms similar to those of

tabes

The case reported is the third case described in which tabes was associated with spinal cysticercus. While the mental sign may have been due to the intoxication caused by the prica ite the syphilis from which the patient had suffered may have been purify responsible. AUDREY G. MOFOLM M.D.

Ssamarin N N The Healing of Aseptic Wounds of the Spinal Cord (Ueber die Heilum aseptischer Wunden de Rueckenmarks) 1 erhandl d 16 russ Chr Kotz No cow 1923 p 217

In experiments made on forty four rats and rab bits partial section of the spinal cord was done and followed by tamponade to prevent the formation of a bemations. In the rubbits fibroblasts were iound on the creative after three or four day and resorp into cysts after seven days. The regeneration of the nerve fibers was an irregular process. It inst appeared after three weeks but after from thitly to sixty days the regenerated nerve fibers disappeared After inother sixty days it apan appeared and as the process of resorption was then less pronounced the regenerated nerve fibers disappeared the process of resorption was then less pronounced the regenerated nerve fibers did not disappear. After

five months rather numerous regenerated nerve fibers and even nerve bundles were found traversing the scar The nearer the center of the cord, the greater the number of regenerated fibers Regen erated nerve fibers were seen also in the degenerated areas of the spinal cord above and below the scar The gray substance showed a tendency to regen erate, but only to a slight degree

LORYMANN (Z)

# SYMPATHETIC NERVES

Coenen H Syncope Collapse and Shock as Related to the Synpathetic Nervous System (Ohnmacht Kollaps und Schock in hiren Beziehun gen zum vegetativen Vervensystem) Muenchen med Wichnstein, 19 d Ivun 1 60

The author first briefly describes the signs of syncope, a transient state of unconsciousness usbered in by cerebral anamna and representing a reaction to psychic stimuli of various types. A habitual tendency to such a condition can be no more demed than the probability there is also a nervous factor or a personal predisposition. Most probable in such cases is increased lability of the vascular system.

With regard to the pathogenesis and the site of the syncope in the brain the author states that many considerations refute the teaching that the cause is a vascular spasm in the cerebral cortex. Among these is the fact that motor and sensory cortical pbenomena do not usher in the attack but appear only after syncope has fully developed. Moreover Reichardt's investigations indicate that the brain tem and not the cortex is the seat of conscious ness-a location which is near the sympathetic centers for vascular tonus, sweat secretion, pupil lary reaction and sleep all of which are predominant phenomena in syncope Coenen says Syncope is not a cortical but rather a basilar sympathetic syn drome of the brain stem called forth by psychic reflex stimulation of the large sympathetic central

station situated in that region ' Collapse 1e, collapse of the vital functions the symptoms of which Coenen describes has as its cardinal sign a disturbance of the circulation Car diac weakness too great exertion, di case of the heart muscle valvular failure and the action of toxins on the heart muscle may cause collapse Somewhat different is the bæmorrhagic collapse fol lowing the loss of blood in this condition the force of the heart is at first not affected and the vessels are contracted by increased activity of the vaso motor center, but soon the heart becomes empty and the organic circulation suffers Consciousness is lost last and is recovered even before the pulse can be detected. In infectious diseases collapse de pends more upon vasomotor failure than cardiac weakness with a marked fall in the arterial pressure the organism bleeds itself into the flaccid and max imally dilated splanchnic area. In toxic collapse (pancreatic necrosis, tissue injury burns, anaphy lactic collapse) the marked decrease in the blood

pressure is to be ascribed to central vascular injury. The drop in the temperature in collapse cannot be explained by circulatory weakness and the fall in the blood pressure alone. Duelt bas shown that in different into vecations the fall in the temperature is independent of the drop in the blood pressure. Therefore a direct central poisoning must be the cause. This would explain also the sweating and the facial expression in this condition.

Shock occurs very suddenly. Its causes are a severe nervous irritation of a pempheral sensory origin (severe injuries) or a central psychic origin (strong mental perturbation) The chief symptom of this condition in which the sympathetic nervous system is affected is a rapid fall in the blood pres sure. Its neurogenic etiology and instantaneous on set differentiate shock from collapse even though the syndromes of the two are very similar author discusses the many theories of shock. The e are difficult to evaluate because in the foreign litera ture the picture is not clearly defined and collapse symptoms are included in it. The author rejects the cardiac chemical and acapnia intoxication the ories believing that the blood vessels are of chief importance in the symptoms. His theory is based upon the assumption that a too strong centripetal nervous impulse jumps across 'to he sympathetic system paralyzes the vascular system and thereby lowers the blood pressure and diminishes all vital functions As proving the correctness of this as sumption he cites the Goltz palpation experiments and the division of the splanchnic nerve by Ludwig and Cyon The resulting bleeding into the splanch nic area and the drop in the arterial blood pressure caused the menacing symptoms in the circulators system which constitute the syndrome of shock. In just what manner the vascular paralysis occurs has not yet been satisfactorily explained Abdominal hock from mechanical causes in man Coenen attrib utes to a central segmental vascular reflex rather than a purely peripheral cause. The stimulus lead ing to abdominal shock in man may be mechanical but also chemical (perforation of an intestinal older) the consequent perforation peritonitis at first causes the primary reflex paralysis of the abdominal ves sels through the secondary toxic vascular paralysis and in this manner shock changes to collapse with out any change in the external appearance Goltz's experiments the abdominal phenomena run parallel with contractions of the vessels of the extremities so that abdominal shock differs from the other types of shock which are characterized by general vascular paralysis Shock may be caused by evere pain in any part

of the body if a number of peripheral nerves are subjected to great irritation. Blunt superficial ties use injuries are therefore more quickly followed by shock than circumscribed sharp or penetrating in juries. When during long drawn out mutilating operations a sudden and marked drop in the tem perature occurs it may be associated with the marked reflex fall in the blood pressure which characterizes

shock but it is possible also that the penpheral stimulus has paralyzed the temperature center. In addition to the quiet or torpul shock there is

In adultion to the query or topic stock, there is the restless shock denied by many characterise by the restless shock denied by many characterise to be a single shock of the single shoc

matter of the third ventricle The author next discusses briefly the treatment of these conditions. In syncope this consists simply in placing the patient in a horizontal position cardiac collapse heart stimulants are to be used In vascular collapse in the infectious diseases the latter would be of no value and it is necessary to raise the blood pressure by increasing the central tonus by the use of caffein camphor or strychnine and the peripheral tonus by the use of adrenaum or hypophysin Incollapse following hamorrhage the subcutaneous or intravenous administration of a liter of Ringer's solution or better blood transfusion is the sovereign remedy. In true wound shock new trauma must be avoided and the blood pressure must be raised before any intervention is undertaken. Heat and morphine are also indicated. Although theoretically the treatment of shock and collapse are different in actual practice difficulties are met since the symptoms of the two conditions are so similar

At the basis of all of these syndromes there are very complex organic processes which require care ful clinical investigation particularly from the point of view of the knowledge recently gained concerning the sympathetic nervous system [Jassey (Z)]

Forbes A and Cobb S The Physiology of the Sympathetic Nervous System in Relation to Certain Surgical Problems J tm 11 Ass 1926 (xxxv) 1834

Ranson S W The Anatomy of the Sympathetic Nervous System with Reference to Sympathec tomy and Ramisection J 4m W Ass 1926 [xxxvi 1886]

Foners and Come do not accept the by pothesis of Langelaan that in voluntary muscle there are two separate mechanisms—a contractile mechanism and a plastic mechanism. They believe that this theory was due to a misunderstanding of the work of previous investigator and that therefore Hunter and Royle's work has an unsound basis. Hunter assumed Langelaan is distinction to be well founded and en deavored to show that the plastic element in tonus is eliminated by sympathectomy, while the contractile element is not disturbed. On the basis of

Hunter's theory Royle developed the operation of ramisection by which he asserts that be has relieved certain cases of spastic paralysis

In recent experiments on seventeen cats subjected to sympathectomy either before or after decerebra tion. Forbes and his co workers found that the rigidity of decerebration was essentially unaffected by the operation On the other band Kuntz and Kerper seem to have successfully repeated Hunter's work Orbelt reports however that simultaneous stimufation of the sympathetic and omatic nerves adds nothing to contraction until fatigue develops but that with the onset of fatigue sympathetic timulation increases the contraction evoked by somatic stimulation. The sympathetic effect show a much longer latency than muscular contraction evoked by motor nerve stimulation a latency which approximates that of the action of the sympathetic nerves on the heart

These observations suggest that the nerve impulses reaching the muscle fibers by this channel act on them in a different manner from the ordinary somatic motor nerve impulses. Apparently these do not attudate the muscle that is they do not cause contraction. Act it is conceivable that at the sympathetic nerve endings a chemical effect of some sort is produced which alizers the state of the muscle and in some way counteracts the tendency to fatigue It is encorea, but all the loss of this influence may explain the observations of Hunter Royle kunter and kerper and others who have found changes in tonus following sympathetomy. In any case Forbes and Cobb believe that there

In any case Forbes and Cobb believe that there is no justification for distinguishing two components contractile and plastic in the tonus of mammalian sheletal muscle and that the effect of ramisection on spastietty has been over estimated

RANSON first reviews the anatomy of the sympathetic nervous system. On the basis of Edge worths work on the dog his own on the cat and that of Jonnesco and lonescu on the human subject he concludes that the unnervation to the heart is from the middle and inferior left cervical ganglia No explanation is offered for the fret that avulsion of the left superior cervical ganglian alone of the gives richel from anging pectors.

It is pointed out that the innervation to the blood vessels of the extremities is by way of the spinal nerves which it follows to the subcutaneous tissues where branches are given off for the innervation of the arterioles. Therefore stripping of the larger vessels is an illogical operation and the beneficial results that occasionally follow such operations remain unexplained. If of M Daypors M D

McNealy R W Perlarterial Sympathectomy J

Im W tss 1926 lxxxv1 1968 Cutter E G and Fine J Sympathectomy In Anglina Pectorls Report of Cases J Am W fss 1926 lxxv1 1972

McNeals states that periarterial sympathectomy has had a stimulating influence on research regard

ing the sympathetic or autonomic nervous system and has served to weld a closer bond between the neurologist and the surgeon However, he is not prepared to accept either the theory or the practice of the present operation. His own experience as well as that of other workers suggests to him that the operation should be discarded. He believes that further study of the sympathetic nervous system and of the pathogenesis of various vascular disturb ances should be made before operative procedures are resorted to Periarterial sympathectomy carries with it some technical difficulties and may be accompanied by serious mishaps such as wound infection perforation of the artery, secondary hemorrhages false angurism, thrombosis of the artery and gan grene of the extremity Ramisectomy and ganglion ectomy have a still greater operative risk

CUTLER and FINE report beven cases of sym pathectomy for angina pectoris. These show that a single or bilateral extirpation of the superior cervical ganglion or of the entire cervical chain and first dorsal ganglion will frequently give temporary com plete or partial relief and often will fail The com plete operation is less likely to fail entirely than simple superior ganglionectomy. In one case the pain returned after the simple operation, but was apparently relieved following the secondary removal of the stellate ganglion on the same side In certain cases it appears that what was considered an angina on the left side before operation was converted into an angina on the right side by the Jonnesco pro cedure on the left side. This means, however, that the angina on the left side was relieved and the angina on the right side, which was not noticed by the patient pre operatively because of its compara tive insignificance then remained Contrary to our conception of the anatomical factors involved, from which it would seem that proper sensory nerve abla tions ought to stop the pain immediately, certain patients who eventually will be totally reheved will still have pain for a few weeks or months even after a complete bilateral Jonnesco procedure, although as a rule it will be less severe than before the operation This fact is evidence of the insuffi ciency of our knowledge concerning the sensory in nervation of the heart

Cutter and Fine have in no case observed any deleterious effects of sympathectomy on the cardiac capacity. While a few surgeons have expressed the opinion that it is particularly dangerous in spihituc angina, Cutter and Fine find this belief difficult to understand. They admit that a general anasthetic and prolonged surgical trauma may well be deleterious but call attention to the fact that these are matters that enter into consideration in any case of syphilitic cardiac disease in which an operation is continuitied to the cardiac disease in which an operation is consideration as a continuitied of the cardiac operation as continuitied. They believe that when these dangers are duly cared for, a case of syphilitic agrian should benefit from the operation as certainly as any other type of case.

The cases in which the operation is most dangerous in the experience of Cutler and Tine are those with

advanced cerebral arteriosclerosis combined with severe coronary disease Patients with these conditions do not tolerate any surgical procedure well, and it seems that sympathectomy makes them dennitely worse, although it may relieve the pain

Among the most distressing postoperative com plications of the procedure are the by effects, which seem to be directly proportional to the degree of nerve resection The Horner syndrome is a minor defect that becomes compensated in time Partic ularly annoying are the pains that are felt in the shoulder, neck, face, jaw and arm on the side on which the operation was performed. In the 13w. especially along the ramus, and in the temporo mandibular joint, severe pain is experienced especially at the beginning of a meal and in severe cases may persist throughout the period of food ingestion In the shoulder or scapula and down the arm, partic ularly at night, there is a constant ache which is difficult to relieve except by narcotics or local coun terirritants Areas of hyperæsthesia on the face, ear, or neck vary, as do those of ancesthesia, with the amount of injury done the cervical plexus during the operation These symptoms vary in severity and extent of distribution in different cases, and may be so distressing as to make the cure seem worse than the disease Their transitory nature suggests that they may be due to the altered vasomotor control of the organs and tissues deprived of their involuntary nerve supply, or to irritation of the somatic sensory neurons of the spinil and cerebral ganglia as the result of neuronic degeneration of the severed sym pathetic nerves

That surgers will come to have a definite place in angina pectors seems promising, but it is impossible as yet to say definitely which is the most desirable procedure of those proposed Cutler and Fine tend to favor the partial Jonnesco procedure, unlateral or bilateral depending upon the nature of the case

Unfortunately, the condition is not susceptible to laboratory investigation beyond the establishment of the extrinsic nerious connections of the heart. It should be remembered by all who would shoulder the responsibility of operating in cases of angina pectors that treatment is still in the experimental stage and should be attempted only in carefully selected and studied cases which can be kept under observation until the end results are known.

STANLEY I SEFGER M D

Okinšewič A and Amossov, A Bilateral Extrupation of the Upper Sympathetic Ganglia and Perlarterial Sympathectomy on the Carotids in Chronic and Epidemic Encephalitis with the Parkinsonian Syndrome (Vesuche bilateraler Entierung des oberen sympathischen Ganglions und pernarterieller Sympathektomic an den Caroti den bei chronischer und epidemischer Encephalitis mit Parkinsonschen Erschenungen) Verhändl d 16 russ Chr. Kong., Moscow, 1025, p. 341

The authors performed bilateral extirpation of the upper sympathetic ganglia and periarterial sympa

theetomy on the carotids on six men and three women with akinetic hypertonic forms of disease characterized by greatly diminished mobility and hyperkinesis in the form of a tremor. The approach to the lateral column and to the vessels was made by an incision along the anterior border of the sterno clerifomation muscle.

The immediate favorable effects of the operation were more active mimic motions a greater range of motion and quicker activity diminution in the cataleptic symptoms reduction of the vasomotor and secretory disturbances and more lively psychic

powers

The unfavorable results included ptosis head ache toothache sweating of the upper portion of the hody and increased blood pressure

There was no effect on the tremor or the spinal (pyramidal) symptoms such as clonus and urinary incontinence. The operation should be performed only when more conservative measures fail

PETROS (Z)

Davis L and Kanavel A B Sympathectomy in Raymoud a Disease Erythrometalgia and Other Vascular Diseases of the Extremitles Surg Grace & Obst. 10 6 Min 220

Most experimental evidence seems to show that the motor and sensory nerves to the peripheral vessis run only a short di tance in the pervascular sheath and then enter the regional somatic nerves in penarterial as mpathectomy, in vascular deseases of the extremities reported by Leriche and others have not been supported by experiments on animals even those carried out by Leriche. Nevertheless the chinical results cannot be helpful dynamical exiting the chinical results cannot be helpful dynamical.

In the cases of patients subjected to a sympa thectomy for spasticity Davis and Kanaval noticed in the extremity operated upon a visodilatation and rise in temperature which lasted for about two weeks. On the basis of this observation they removed the stellate ganglion or lumbar sympatetic chain in one case of erythromelalgia and two cases of Raynauds disease. He operation was folioned by improvement. A patient who was found later to under an erroccous diagnosis without improvement. The authors believe that cases with definite selerous or permanent obstruction to the arteries my oke dare not amenable to treatment. The operations are well described and illustrated.

The article 1 concluded with the following state

ment

There are many physiological factors concerned in the control of the peripheral circulation of which the vessel musculature and caliber are hut a part. In the present state of our knowledge concerning the pathology of the group of vascular discases known as vasomotor neuroses we are unable to explain completely the effects produced by removal of the sympathetic innervation to the extremity.

## MISCELLANEOUS

François J Lumbosacral Lamunectomy in Retention and Incontinence of Urine Due to Spina Bifida Occulta (De la faminectomie lombo sacrée dans certaines rétentions et incontinences du mendies au spina bifida occulta) J durol méd et chir 10 8 xv 161

François reports five cases of urinary disturbances due to spina bifida occulta

Case I was that of a girl II years of age who had had nocturnal nocontinence of unne since infancy The urine was normal and the Wassermann reaction negative. All of the classical treatments had been tried without success

\ ray examination revealed an occult spina blida of the first sacral vertebra. Between the fifth lumbar and the first sacral vertebra there was a transverse hand of yellowish white tissue r cm wide the right half of which was adherent to and compressed the dural cul de say. The cul de sax showed pulsa

tion above this band but not below it

When the ligament was resected the entire cul de sac pulsated. For five months there was no involuntary utination at night but at the end of that time it recurred gradually. I ossibly the compression recurred. Another examination by sub arachmod injection of linipided will be made.

Case 2 was that of a girl 15 years of age with nocturnal incontinence of urine since infancy. In this case also the urine was normal and the Wasser

mann test was negative

Roenigenograms showed a biatus between the first and second sarral vertebre: Lipiodol injection revealed two ligaments one between the first and second sacral vertebre and one between the fourth and fifth limbar vertebre.

Laminectomy of the fifth lumbar and the sacral vertebræ was done. In the four months since the operation there has been no further involuntary urunation.

Case 3. The patient was a girl of 15 years who had had nocturnal incontinence of urne same unfanct. The roentgen examination with hipodol showed two constrictions of the spinal canal one between the fourth and fifth lumbar vertebre and one hetween the fifth himbar and first sacral vertebre. The ligaments were resected after sacral laminetomy. In the three months were resected after sacral laminetomy in the three months was no curred only twice.

Case 4 The patient was a girl of 17 years who had bad incontinence of unite since infancy. Several treatments were without result. The unite was not mal and the Wassermann test negative. Lumbo sacral roentgenography showed an anomaly of the arch of the fifth lumbar vertebra and an occult spina hifida of the first sacral vertebra and substrachmond migetion of lipuodol was very definitely arrested after twenty four and forty eight hours at the upper border of the hatsus of the first sacral vertebra.

A curative injection of 10 c cm of biolodi from below was tried without success Laminectomy of

the fifth lumbar and sacral vertebre showed a ligament extending almost uninterruptedly from the fourth lumbar to the second sacral vertebra. The operation was long and difficult because of the intimate adhesion of the ligament to the durn mater. The ligament ran up under the arch of the fourth sacral vertebra, but as there was a copious venous hemorrhage when this arch was cut the operation was stopped. In the month since the operation there has been no involuntary urination

Case 5 was that of a woman 20 years of age with a history of dysmenorthea, stubborn constitution for the past four months which sometimes persisted for a week, frequent pain on urnation, turbidity of the urne, and finally retention of urne for twenty four hours which necessitated catheterization. Three months ago there was a terminal kematurna

The urine was turbed but was negative for tubercle bacilly. Physical examination revealed cystitis, a pvelonephritis from colon bacilli on the left side, and a small cyst of the left ovary. As treatment for the cystitis and pychitis was without benefit, a gyne cologist recommended extirpation of the cyst of the ovary as he believed that it might be causing the cystitis through pressure. Beginning cight days be fore this operation was performed unnation ceased and catheterization twice a day became necessary. The operation duot cause any improvement and when the patient was sent to the author for examination she had had complete retention for two months.

Examination by the author revealed pain on pressure over the spinous processes of the fifth lumbra and first sacral vertebræ. The kidneys were normal Neurological examination showed absence of the plantar reflex on both sides, of the viternal anal re

flex, and of paresis and amy otrophia the presence of dorsal hypesthesia of the toes and the anterior half of the external border of the left foot, evaggeration of the Achilles reflex on the left side, ankle closus on the left side, normal patellar reflexs, and pain on pressure in the left sacral region (second and third segments)

The subarachnoid anjection of lipodol showed an occult spina bifida of the first sacral vertebra with marked constriction below this point. Laminectomy of the fifth lumbar and sicral vertebra wa, done under general anesthesia. Beneath the spina bifida of the first sacral vertebra there was a vellowish ligament extending across and compressing the canal. This heament was removed.

Forty eight hours after the operation the patient was able to empty, her bladder completely the constipation had ceased and the slight disturbances of sensation and of the reflexes had disappeared by to the time this report was mide, four and one half months after the operation, the improvement had persisted. This is the first case known to the author of complete retention of urine due to spina bifical and cured by operation for the latter condition.

François believes that patients with idiopathic in continence of urine which has persisted beyond puberty and resisted all ordinary methods of treatment should be examined roentgenologically for occult spina bifide and by Steard's method of subdural injection of lipidod! for compression of the spinal canal. If compression is found laminectomy should be done. The same method should be employed in cases of retention of urine when other causes have been excluded and when there is no affection of the general nervous system.

ALDREA G MORGAN M D

# SURGERY OF THE CHEST

#### CHEST WALL AND BREAST

Coventry W A The X Ray and Metastasis in Breast Cancer Minnesota Wed 1926 17 316

In the five year period from 1920 to 1925 inclusive Coventry operated on forty seven patients with ear comma of the breast. Of this number 60 per cent are dead and 10 per cent of those who are living are known to have a recurrence Of those who are living are who are living and any are recurrence on the as a recurrence on the skin on the side operated upon two have carcinoma in the other breat t two have a supraclavicular recurrence and one has involvement of the spine.

The operation performed in all cases except two was radical. In 80 per cent of the cases prehimmary roentgen irradiation of medium intensity was given over the breast and gland bearing area. In 95 per cent postoperative irradiations were given the number warp ing from two to twelve. Coventry has never seen the occurrence of rapid metastasis following irradiation. Rapid spread is probably caused by intensive deep theripy, which lowers the patient's resistance.

The sites at which metastases are formed most frequently are (1) the avillary glands (2) the clavic ular nodes (3) the chest wall and mediastnum (a) the peritoneal cavity (5) the skin and (6) the skeletal system

In 95 per cent of the cases reviewed there was availary involvement before the operation. Coventry does not regard this as a contra indication to surgical treatment.

When metastases are present in the clavicular nodes it is probably best to consider the condition inoperable

I ulmonary involvement occurred in two cases and liver involvement in four Local recurrence in the skin occurred only once in this serie whereas previous to 1920 it was found quite often The X ray probably was important in checking it

Metastases to the skeletal system occurred fre quently. The involvement of the osseous system is evidenced by tenderness over the bone often before there is roentgenographic evidence of its presence.

These cases should be considered inoperable. The treatment of metastases with the \ ray bas not been satisfactory.

Coventry is of the opinion that all lumps in the breast should be removed even when they are apparently being in He does not believe that irradiation accomplishes anything except the prevention of local recurrences and alleviation of the pain.

LTON UCHSNER MID

TRACHEA LUNGS, AND PLEURA

Iglauer S Use of Injected Iodized Oil in the Roentgen Ray Diagnosis of Laryngeal Trache at and Bronchopulmonary Conditions J im M Ars 1926 Ivxxi 1879

The methods most commonly used to introduce a contrast medium into the bronchial tree are injection into the trachea through a laryngeal cannula and injection through a needle passed into the larynx through the encoth vord membrane.

For the injection of sodized oil—either the French preparation hippoid of the German product odipin—Iglauer uses a special intubation cannula consisting of a shortened metal O Dwyer tube with a longitu dinal groove cut in its back wall into which a small bore secondary cannula is soldered. The accessory cannula (designed to convey the oil) is somewhat longer than the O Dwyer tube and terminates above in a nipple over which a long piece of rubber tubing is slipped. Below the secondary cannula strends in a semicircular prolongation beyond the O Dwyer tube.

Preliminary to the examination a dose of morphine or codeme is administered and in the cases of adults the larynx is anisthetized with 10 to 20 per cent cocaine A long rubber tube is attached to the oil cannula and the intubation tube is threaded in the usual manner for safety and extraction The intubation tube carried on an obturator is then introduced into the larvax under the guidance of the larvagos copic mirror. In the cases of young children it is inserted by touch. Through the rubber tube which projects from the mouth a small quantity of cocaine solution (2 per cent) or procaine (3 per cent) is in sected into the trachea to abolish the cough reflex With the cannula in position the contrast medium is injected by means of a syringe and the patient placed in the position necessary to fill the portion of the bronchial tree which is to be studied

Iglauer has used this procedure to study the lary nr as well as the bronchial system. In the cases of tracheotomized patients a finger cot filled with the contrast medium is drawn into the larynx from above downward. A lateral roentgenogram then shows the obstruction very definitely

In cases of bronchiectasis a positive diagnosis can be made easily after the injection of the contrast medium

A pulmonary abscess may be difficult to fill with the contrast substance as its opening may be very small

Iglauer does not believe the procedure is con traindicated in tuberculosis. The only contra in dications that he recognizes are hyperpyrexia and cacheria.

Occasionally the injection of the oil is followed by dispnea and frequently by a slight febrile reac tion and a temporary increase in the expectoration The oil is eliminated chiefly by expectoration, but a

small amount is absorbed

In the discussion of this report, Bronfin stated that he uses the intratracheal method and has never noticed any unfavorable effects from it although in one case of bronchiectasis the oil was still present sixteen weeks after the injection Nevertheless the possibility that the presence of the oil may cause an infiltration in the pulmonary tissue must always be kept in mind

CARMODY reported that he never uses iodized oil in tuberculosis because he does not wish to employ the bronchoscope in this condition

ALTON OCHSNER M D

ock A Harrison, T R , and Wilson C P Partial Tracheal Obstruction An Experimental Blalock A Study in the Effects on the Circulation and Respiration of Morphinized Dogs Arch Surg 1026 THI. 81

In experiments on dogs anæsthetized with mor plane the nutbors studied the effect of partial respira tory obstruction on the pulse rate respiratory rate minute ventilation, oxygen consumption, oxygen and carbon dioxide contents of the arterial and venous blood, hydrogen ion concentration, and circulatory minute volume

Partial obstruction of the tracheal cannula caused

slow shallow breathing

An increase of the carbon dioude content of the arterial and venous blood occurred with moderate degrees of obstruction, whereas anovæmia did not occur until the obstruction became extreme

Even with extreme degrees of obstruction, the oxy

gen consumption was not decreased

Acidosis due to the accumulation of carbon dioxide

was a constant finding

The circulatory minute volume was very much increased although the pulse rate was practically

uncbanged

In one animal to which alkali was given intrave nously during the period of tracheal obstruction the hydrogen ion concentration and blood flow hecame normal, but the minute ventilation and oxygen con sumption were decreased below the normal value The dyspnæa appeared to he relieved

From these observations the following conclusions

A healthy circulation may partially compen

sate for a failing respiratory mechanism When the lungs are normal and tracheal oh struction is produced the carbon dioxide content of the blood is elevated quite markedly before anox

æmia occurs

3. Alkaline therapy may be of value in cases of tracheal obstruction due to inoperable causes and in laryngeal cedema following instrumentation Whenever alkalı is administered, oxygen also should be given MORRIS H LAHN M D

Fritz, R The Liberation of Pieural Bands Under Pleuroscopic Control During the Treatment of Tuberculosis by Artificial Pneumothorax (La libération des brides pleurales sous contrôls pleuroscopique au cours du traitement de la tuber culose par le pneumothoray artificiel) Presse med Par 1026 TXXIV 8

The value of pulmonary collapse in the treatment of predominantly unilateral ulcerative caseous tuber culosis is no longer questioned. The indications for artificial pneumothorax bave been extended and its technique made exact. Most surgeons agree that as complete a collapse as possible should be established progressively and maintained over a long period

Various statistics show the frequency and thera peutic insufficiency of incomplete compression. For cases in which complete compression is prevented hy intrapleural adhesions Jacobaeus of Sweden and Herve of France have proposed the division of the adhesions. This requires clear vision of the adhesions which the fluoroscope and roentgenogram show

only imperfectly

Fritz describes the use of the pleuroscope with its trocar and of the galvanocautery or the diathermic sound with the conductors The operative indica tions are greatly reduced by the endoscopic exami nation The optimum indication is offered by file form bands or membrane like fibrous bands which are non vascular do not penetrate the lung tissue. and are located at the level of the third or fourth interspaces Apical and diaphragmatic bands are relative indications Short, broad thick adhesions are contra indications

The operative and postoperative complications are pleural reactions and hæmorrhage. The pleural reactions vary greatly in their gravity, but the hæmorrhage is rarely dangerous

WALTER C BURKET M D

Holman E The Postoperative Pulmonary Ah Northwest Med 19 6 xxv 290 scess Castlen C R Pulmonary Abscess Med 19 6 TV 294

Buschmann T W The Surgical Treatment of

Lung Abscess Northwest Wed 19 6 TTV, 297

HOLMAN Of the two generally accepted theories as to the cause of postoperative pulmonary sup nuration the embolic theory is the only one which is supported by experimental evidence. Attempts to produce a lung abscess by the introduction of in fected material into the bronchial tree have been re peatedly unsuccessful Holman and Chandler were able to produce a pulmonary abscess in ten of twelve attempts by introducing an infected embolus into the jugular vein. In experimental studies the first evidence of pulmonary suppuration occurs six days after the injection of the infected substance This agrees with the chinical findings, as Moore found the average time of onset of the symptoms in 187 cases to be the sixth day

Expectant treatment is indicated in cases with an associated pneumonia, in the incipient stage of the abscess and when progressive improvement is noted
If the abscess communicates with a bronchus it
should be treated by postural dramage for from six
to eight weeks before operative interference

If there is no communication of the abscess with a bronchus or if the patient's condition becomes progressively worse operation should not be de layed If the abscess is located centrally artificial pneumothorax may be attempted. This may be un successful however as pleural adhesions are present in from 40 to 50 per cent of the cases It should never be used when the abscess is located peripher ally because under uch circumstances the abscess might rupture into the pleural cavity and produce a fatal empyema The treatment of peripheral ah scesses is direct drainage. After resection of the ribs overlying the abscess cavity the cavity should be opened only when pleural adhesions are present and then with a cautery If no adhesions are found the wound should be packed with gauze From five to eight days later firm enough adhesions will have formed to permit drainage of the abscess with safety The abscess should be drained at the point where the pleural adhesions are found. Abseesses in the upper lobe are best drained anteriorly. Those located in the lower lobes can be drained laterally or poste riorly

In cases with multiple abscess formation the eau tery pneumectomy of Graham is indicated

Prophylaxis is especially important. Patients who have had a recent acute tonsillar or respiratory in fection should not be operated upon for at least a week after the subsidence of the acute symptoms. All operative procedures should be earned out as gently as possible as trauma increases the danger of the formation of emboli.

CASTIEN Pulmonary suppuration may follow in flammation of the lung or may be caused by direct extension from a neighboring organ the aspiration of infected material in operations about the upper respiratory tract or by septic embody

In the case of any patient developing postopera tive respirator; symptoms or in whom there is an exaggeration of thready existing pulmonary symptoms the possibility of a lung abscess must be borne in mind

Tangential \(\sigma\) ray petures are often more valuable than the ordinary anteroposterior views. The sputum is quite characteristic. Large amounts of feetid sputum are expectorated. The sputum negative for tuberceli boall but may contain elastic tissue. Cavity signs are present in about 25 per cent of cases.

A pulmooary abscess is usually of short duration as contrasted with brouchiectasis and pulmonary tuberculosis

Multiple ab cesses usually follow acute suppurative processes elsewhere in the body and offer some difficulty in diagnosis

If no improvement is obtained after three or four weeks under inedical treatment a surgical procedure is indicated Twenty five cases of pulmonary abscess are reported in seven of which the lesion followed tonsil lectomy. In three cases a general anesthetic had been used. In twelve cases the abscess followed pneumona. In five cases four of which were fatal the cause was not determined.

Ten cases were operated upon In eight a thora cotoms with open dranning and in two an extra pleural pneumolysis was performed. In two cases treated expectantly spontaneous healing occurred Eleven cases were treated first by artificial pneumo thorax. The pneumothorax aided in the localization of adhesions operation was performed later.

As conservative methods of treatment postural drainage and artificial pneumothorax are recommended. Of the operative procedures drainage of the abscess in two starces is the method of choice

BUSCHMANN Bronchoscopy should be used only in cases of pulmonary abscess located at the root of the lung and due to the aspiration of a foreign body Artificial pneumothorax is applicable to early

eases before a dense inflammatory reaction has oceurred around the abscess. It is most useful in eases in which the abscess is located centrally. External drainage is indicated in the treatment of

peripherally located abscesses. A two stage operation should be done

In eases of deep abseess thoracoplasty is prefer able to external drainage

In eases with multiple suppurative processes the eautery pneumectomy of Graham may be used

Buschmann has employed shiefly the technique of

Buschmann has employed chiefly the technique of extrapleural pineumolysis. This consists in the production of an extrapleural pineumothorax by separating the parietal pleura isserial pieura and involved lung from the thoraxie eage. The collapse of the obscess eavity is maintained by tamponade with gauze. Buschmann reports in detail five eases of pulmonary abscesses in four of which extrapleural pneumolisis was performed with good results.

ALTON OCHSVER M D

Smirnov S Experiments with Simple and Combined Ligation of the Pulmonary Vessels (Experimente mit einfachen und kombinerten Unterbandungen der Lungengriass e) Ferhandl d 16 rais Chir Aong Mostow to 5 p 382

This care long absolute ty y p so:

To determine the effect of simple and combined ligation of the pulmonary vessels the author carried out experiments on thirty dogs. Following the ligation of branches of the pulmonary arteries the pulmonary issue showed a fibrous atrophy and the circulation was re-established through the bronchal vessel. After twenty months there developed in such a lung hypertrophic changes of the bronchial lumen mucosa with papillary excrescences of the epithelium which here and there bridged the bronchial lumen and sometimes led toeys formation. In the author's opinion these changes contra indicate ligation of branches of the pulmonary aftery to the treatment of bronchic tests which has been recommended by Sauerbruch.

The ligation of the pulmonary veins crussed odema in the pulmonary parenchyma Simultaneous ligation of arteries and veins (branches of the pulmonary vessels) was followed by atrophy of the parenchyma, including the bronchial epithelium Ligation of the bronchial vessels was soon compensated by anisto moses of the pulmonary vessels and therefore had little effect

Petron (Z)

# Alexander E G and Sherk R L Emptema in Children illantic M J 1926 xxix 60

This article reports a study of 291 cases of emperia in children which were treated in the past eleven verts in four institutions. The mortality is much greater in the first three years of life (22 per cent) than it is in later childhood (11 per cent) because in empyema in infancy the resistance is low toxemia is evere, septicemia is more prone to develop and complications are more common

In nearly all of the cases reviewed the condition was preceded by pneumona, but in some of them it followed other respiratory disturbances and in one it developed after an injury to the chest wall Early pleums in pneumonia is an important

causative factor

In the typical case of acute emplema the fever recurs after the pneumona crisis with dyspinea acceleration of the pulse, evanosis, and displace ment of the heart Emplema is to be suspected when the temperature falls but does not quite rach normal and oscillates at that level, the per cussion note becomes more dull, and the dullness extends antenoris. In subacute cases there may be instead of these signs, a loss of weight and appetite or a hacking cough or diarrhæa. The authors have never known of delayed resolution in the pneumona of childhood in cases in which this is suggested emprema is present

The roentgen ray aids in locating the empyema and revealing the condition of the lungs. The absolute diagnosis rests upon the aspiration of pus Yearly all of the cases reviewed were of the massive type of empyema localized toward the base of the

thorax posteriorly

The sex and ages of the patients the incidence and location of the empyema, and the mortality are given in tables. Thirty one per cent of the children were under 12 years of age. The condition was most common in the second year of life and occurred more frequently in boys than in girls and occurred more frequently in boys than in girls and on the right side than on the left side. Of the communicable diseases scarlet feyer is most frequently complicated by empyema but in this group of conditions empyema is rare.

When the emprema was discovered early an the cases reviewed it was treated by repeated aspirations or intercostal drainage through a catheter while the surgeon awaited resolution of the pneumonic processes, the thickening of thin pus, the localization of a massive emprema or improvement in the patient's general condition. The subsequent operative procedure, which was performed under

local anæsthesia when possible and with the patient lying on his abdomen, consisted in the resection and the insertion at the lowest point of two fenestrated tubes for drainage. The sudden withdrawal of large amounts of fitud was a voided. Irrigation was found to be of little value in hastening convalescence. Dalun's and other solutions were disrippointing. The tubes were shortened a few centimeters from time to time and removed as soon as feasible, the wound then being allowed to heal if there was no fever.

In no case was there any acute osteomyelits or necrosis of the ribs. At the Philadelphia Hospital for Contagous Diseases cases in which the resection was done were fatal, whereis those treated by aspiration or intercostal drainage terminated in recovery

In the postoperative care the most important factors are sufficient drainage, food rich in calories to prevent introgen loss, blowing exercises to promote lung expansion and the prevention of spinal deform its due to the resection

Recovery from emprema is slow. The disease cannot be considered cured until the sinus is healed and there are no signs of trouble attributable to the emprema.

MAURICE MEYERS M.D.

Kruzko W The Results of the Operative Treatment of Acute Empyema at the Wladmir Children s Hospital (Resultate der operativen Behand lung akuter Empyem nach dem Material des Wirdimir Kinderhospitals) 1 erhandi d 16 russ Chir Kong Moscow 1925 p 354.

The author reviews 145 cases of empyema in children Fifty seven and two tenths per cent of the patients were under 6 years of age. In 64 per cent of the cases the empyema was of metapneu monic origin in 23 per cent it was apparently pri mary and in the others it was due to various causes

Of the ninety five cases in wich a acteriologilbach study was made diplococci were found in 614 per cent streptococci in 125 per cent staphylococci in 72 per cent and mixed organisms in 187 per cent

All of the 145 ptients were operated upon, eleven in the first week seventeen in the second, and 117 at later periods. The time at which the operation was performed seems to have had an influence upon the results as the highest mortality occurred following operations performed in the second week. The age of the patient had a decided influence upon the results the mortality being 50 per cent among those under 1 year of age, 35 2 per cent among those tween 1 and 4 years 7 2 per cent among those between 4 and 9 years and 5 8 per cent among those hetween 9 and 12 years.

When the cases were grouped according to the hacterological findings the mortality was found to the 417 per cent in those with streptococci 25 per cent in those with stapby lococci 23 7 per cent in those with diplococci, and 15 8 per cent in those with a mixed infection

In the majority of the cases (113) a thoracotomy with rih resection was done. In only twenty eight was rib resection omitted. The mortality in the

former group was 247 per cent while that in the latter group was 147 per cent. The author believes that as factors in the mortality the differences in the mortality the differences in the sacteriological findings and the technique were of secondary importance to the ages of the patients.

During the last year a new method consisting in opening of the pleura without postoperative drain age has been used. Of the sixteen patients so treated thirteen had an uneventful convalencence and only three died. In the cases without drainage the aver age duration of theillness was twenty three and four tenths days whereas in the cases with drainage it was fifty mine and seven tenths days. Prayor (2)

Krasnobajev T and Freidin I The Results of the Treatment of Acute Empyems in the Moro sov Children a Hospital (Resultate der Behand lung akuter Empyeme nach dem Materal des Morosovschen Kinderkrankenhauses) Verhandl d 16 russ Chir Long Moscow 1925 p 338

The authors review the results obtained in 353 cases of emptymen which were treated in the period from 1004 to 17924. Of the 193 cases in which a bacteriological examination was made diplococci were found in 105 streptococci in thirty four staphylococci in twenty one and mixed organisms in thirty three In 250 cases a thoracotomy without in resection was done. Local amenthesia was employed. Tharty eight of the children were 1 year of ago or under severity six between 1 and 4 years old, 132 between 2 and 9 cars and thirty four between 0 and 12 years. The mortality in these age rough was 73 7 per cent in Group 1 37 i per cent in Group 2 233 per cent in Group 3 and 147 per cent in

Resection of one 11h was done in twenty-one cases
In this group there were three deaths The number
of cases is too small to warrant conclusions with

regard to the operation

In the last three years the author has obtained good results from repeated punctures and aspirations. In half of the fifty two cases in which this treatment was used complete healing resulted. In the others a secondary thoracotomy was necessary. Eleven of the patients were 1 year of age of under twenty one between 1 and 4 years old fourteen between 4 and 9 years and is between 9 and 2 years. The mortality was 9, per cent in Group 1 190 per cent in Group 2 and 0 in Groups 3 and 4.

The authors recommend multiple aspirations as the best method for the treatment of empyema in children Perros (Z)

#### HEART AND PERICARDIUM

Leriche R The Treatment of Obliterative Peri carditis and Precordial Thoraccetomy (A propos du traitement de la symphyse du pericarde et de la thoraccetomie precardiaque) Bull et mên Soc nat de chir 1026 lu 1720.

Since his first comprehensive study published in 1909 Leriche has performed six precordial thora cectomes three for obliterative pericardits and three for other cardiopathies. He now believes that it should be performed only in cases of pericarditis and selerosing mediastinits. In the other classes of cases its results are too transitory.

Only local anesthesia should be used. Two of the deaths in the authors of general and thesia. The resection should be quite extensive. There is no advantage in removing the posterior perichondrium a diffuse bone placque is as apt to form in absence of the perichondrium as in its presence.

In only one of the authors cases was the late result good. A patient in poor condition with albumuura enlargement of the liver and ascites was so benefited by the operation that when he was last seen twenty four months later he was able to work on scaffolds and in cassons under pressure One patient with an excellent immediate result died suddenly at a dinner given to celebrate his recovery in the other sets in the other cases.

As a whole the results are mediocre and in any given case cannot be foretold. However the operation should not be ahandoned as there is everything to gain in these cases and very little to lose

ALBERT T DE GROAT M D

## **ŒSOPHAGUS AND MEDIASTINUM**

Morley J Diverticula of the Esophagus Brit

Diverticula of the esophagus are a somewhat un common cause of dysphaga hut are not as rare as was formerls supposed. They occur usually in elder ymen. The diverticulum is in reality a pharyageal diverticulum as it arises at a relatively weak spot between the transverse and oblique fihers of the encopharyageus muscle. The cause of the mucosal pharyar due to spaam of the upper encophageal sphincter retrosternal gotter or organic stricture may be a factor.

In the diagnosis carcinoma must be excluded

This tequires an X ray examination

The œsophageal pouch offers a grave mechanical obstruction to deglutation and can be successfully treated only by surgery In most cases the operation of choice is primary excision and suture but to avoid grave complications the sac must be rendered as sterile as possible by frequently washing it out with a mild antiseptic Anæsthesia should be induced with intratracheal ether or by local infil tration with procame The operation should be attempted only by surgeons who are familiar with the technique of gustro intestinal surgery. The sac must be closed with the greatest care and accuracy The wound should be always drained for the first few days In the cases of emacated patients a gastrostomy should be performed at the same time to insure a sufficient liquid intake. After the operation deglutition must be avoided for several days CYRIL I GLASPEL M D

Pokotlo W A Case of Complete Reconstruction of the Esophagus by the Method of Roux (Ein Fall on vollendeter Rekonstruktion der Speiserochre nach Roux) Verkanil d 16 russ Chir Kon, Vo cow 1925, p 552

The author reports the case of a 26 year old woman with an impassable cicatricial stricture of the resorbagus

At the first operation, the jejunum was sectioned and the distal end was implanted subcutaneously in the jugular fossa and sutured in this position. The distal end of the remaining jejunum was then unit ed to the progunal end.

Three weeks later, an mastomosis was made be tween the stomach and the loop of bowel pussing near it and the peripheral end of the segment of bowel was constricted by recting sutures After mother four weeks the esophagus was serered in the neck, its aboral end closed, and its oral
end implanted in the loop of bowel in the neck. At
this point a fistula formed which was closed only after
six interventions over a period of eight months.
Feeding was then possible through the mouth. The
subcutaneous bowel allowed the food to pass nor
mully, and good peristaltic contractions were visible
externally.

The author believes it would be better to make the anastomosis between the stomach and the loop of bowel which is to act as the esophagus at the first operation and to draw the segment of bowel not only up to the jugilar fossa but balf way up the neck. This would simplify the most difficult step in the operation, namely the implantation of the severed esophagus into the loop of bowel Perrov (2)

## SURGERY OF THE ABDOMEN

## ABDOMINAL WALL AND PERITONEUM

Verescinsky A The Healing of Peritoneal Wnunds (Ueher die Heilung von Ientoneal winden) Ver handl d to russ Chir Kong Moscow 1925 109 The healing of all wounds of the peritoneum even

the smallest occurs by primary or secondary inten

In either case the process is associated with an inflammation of the subserosa and a peritoneal exudate is formed the free cells of which play an important role in the formation of granulations. In primary healing adhesions occur easily and are pre vented only when the peritoneal endothelium and the subserosa are entirely normal This normal condition is very difficult to determine and is de pendent upon the colloidal state. The greater the acid reaction of the tissues such as occurs in inflam mations in general and has been demonstrated ex perimentally in the primary healing of wounds by Girgolaff the more the cells swell the greater the amount of water they take up, and the more adhe sive they become Such increased adhesiveness may explain the easy occurrence of adhesions in pri mary healing in the presence of a quasi normal peri toneal endothelium

In healing by secondary intention numerous untoses of the subserous fibroblasts are found at the end of forth eight hours. In addition the author was able to demonstrate by the silver impregnation method that from the second to the third day, there are formed independently of the cell bodies in the redemations subserous numerous very thin premarkable to the content of the content of the content of the content of the cell bodies in the redemations subserous numerous very thin premarkable to the content of the cell bodies in the redemand in the matter of the cell of

The vascularization of the granulation tissue of the peritoneal wound begins at the end of the first day and takes its origin from the endothelial processes of the nearest capilaries. By the beginning of the third div. the granulation tissue is distinctly vascularized and on the tenth day arterial and venous capillaries are to be seen. On the twenty seventh day, well formed afteries and venis can be made out.

In conclusion the author states that in experimental and pathologico anatomical specimens of peritonical adhesions he was often able by the Golgi method to demonstrate nerve fibers

NORMANN (Z)

Witensky A O and Hahn L J Mesenteric Lymphadenitis inn Surg 1926 lyxxii 812

Mesenteric lymphademitis is often mistaken for acute appendicitis but is an entity more or less distinct from appendicitis pathologically anatomically and to some extent clinically

Some cases may not be differentiated pre-opera twely but ad operation the appendix is found normal and the mesentence lymph glands enlarged. There seems to be no clinical relationship between the two conditions. The involvement of the mesenteric lymph nodes is associated with pathological changes in Pever's natches rather than in the appendix

Mesentent lymphademitis may be either pyogenic or tuberculous. Three types of the former are recognized namely simple suppurative and calcified The authors discuss the characteristics of each Conservative treatment is indicated in all except the suppurative type

Eng G Garsons M D

#### GASTRO INTESTINAL TRACT

Jordan S M and Lahey F II Diverticula of the Alimentary Tract Surg Clin N Am 1926 vi 747

Directicula of the essophagus may be of either the pulsion or the traction type. Those of the traction type seldom cause symptoms as their apices are usually directed outward and upward and rarely har bor accumulations. The diverticula of the pulsion type usually occur at the phary negal dimple on the posterior wall of the essophagus and are due to a congenital defect plus the action of increased intra pharyngeal pressure. The chief symptom of essophageal diverticula is displacia. Ultimately even hiquids are swallowed with difficulty. Reguirgitation of undigested food without hydrochloric acid may occur. Dyspinosa cyanosis and boarseness may result from pressure.

The treatment consists in either dilatation with esophageal bouges or the surgical removal of the sac. The two stage removal of the sac should be done under local anasthesia. The first stage should consist in hiberation of the sac and its implantation upon the skin of the neck and its implantation upon the skin of the neck and the second stage performed after the wound has healed in the removal of the sac. Leakage from the sac stump usually causes a fatal mediatinitis. To prevent a recurrence dilatation should be routinely employed for some time after the operation.

Directicula of the stomach are not common Those of the traction type are probably simple penetrating ulcers with perigastritis in the inflam

penetrating ulcers with perigastritis in the inflam matnry or cicatricial stage Diverticula of the duodenum are second in fre

quency to those of the stomach They may be single

or multiple and of either the traction or the pulsion They are found most commonly in the sec and portion of the duodenum A clinical diagnosis of duodenal diverticula is impossible because the symptoms arising from pressure or inflammation in the diverticula simulate those arising from similar processes in the duodenum, pancreas, and bile ducts An \ ray diagnosis of duodenal diverticula is nos sible, but the shadows must be differentiated from those of ulcer, duodenal stricture due to spasm. and dilatation of the ampulla of Vater Repeated fluoro scopic examinations with the use of atropine to over come the spasm may be necessary

The treatment is distinctly surgical, but dissection may be very difficult if the sac is involved in a mass of pancreatic tissue including the pancreatic and biliary ducts. After its liberation, the sac should be resected Gastro enterostomy is desirable to give the duodenum temporary rest If exploration shows surgery to be impossible, medical treatment in the form of a non irritating diet and measures to main

tain normal bowel function is necessary

In the colon, diverticula may occur at any point Colonic diverticula are more prone than others to become inflamed and to rupture When this occurs, a localized abscess rather than general peritoritis develops The symptoms are pain tenderness and constipation. In many cases there is a palpable mass The X ray diagnosis is difficult as the semi solid faces may so fill the pockets that no barium can enter them When a palpable mass is present, exploration is usually advisable Resection has a bigh mortality unless it is preceded by colostomy and is done in several stages The medical treatment consists in maintaining the normal function of the colon to keep the pockets empty

CYRIL I GLASPEL M D

# Peck C II Cardiospasm Digital Divulsion in

Two Cases Ann Surg 1926 lxxxiv I 6 The first case of cardiospasm reported by the author was that of a man 42 years old who had had difficulty in swallowing for eight years The con dition had not been painful, but the retention of food in the dilated esophagus caused discomfort The use of antispasmodics and bougies had been of no benefit The X ray showed an enormous dilatation of the ecsophagus with obstruction at the cardia

In November, 1025, a gastrotomy was performed The dilated esophagus projected 2 in below the diaphragm No fibrosis or thickening was found The stomach was opened 21/2 in below the cardia and retrograde dilutation with bougies and digital stretching was done until the cardia readily ad mitted two fingers

Recovery was uneventful Solid food was given within a week after the operation Improvement in the ability to swallow continues up to the present time \ ray examination March 6 1926 showed a marked decrease in the dilatation of the œsophagus

The second case reported was that of a woman 26 years old with a history of difficulty in swallowing for four years, vomiting which occurred four or five hours after eating, and pain in the epigastrium and back. Induced vomiting gave no relief. The symp. toms had become more severe during the past year X ray examination showed marked dilatation of the esophagus and delay in the progress of the barium

At operation, performed in April, 1925, the cardia was found 3 in below the diaphragm and greatly delated There was no thickening Through a gas trotomy, the cardia was dilated with the fingers to a diameter slightly larger than that of two fingers

Recovery was uneventful Six months later the patient was free from symptoms and had gained 25 lbs In April, 19 6, the ecsophagus was still greatly dılated

In the discussion of this report Morris called attention to the fact that peripheral nerve irritation produced by an impacted molar or eye imbalance might be a factor in the causation of cardiospasm

HEYD stated that he believed Peck's patients might experience a recurrence of their symptoms

Peck replied that he did not consider his cases cured permanently, but as there was no patho logical lesion present except cardiospasm it is prob able that they could be relieved again in the future. if necessary by mere dilatation

DON K HUTCHENS M D

Delore A., Comte II and Labry R Gastric Hæmorrhages of Obscure Origin (Contribution a l'etude des gastrorrhagies de causes mal connues) Presse med I ar 1926 TXXIS 83

The authors discuss briefly the etiology of the rare hæmorrhages of gastric origin in which no lesion of the mucosa and no constitutional disease which might be held responsible for such bleeding can be demonstrated Some surgeons have called attention to local vascular changes as a possible cause of the bleeding In this article two cases with alterations in the gastric vessels are reported. The first case was that of a man of 36 years who for two years, had had melæna and repeated gastric hæmorrhages which finally resulted in severe animia. The patient complained also of vague dyspeptic symptoms and atypical epigastric pain Examination of the ab domen was essentially negative. At operation the stomach was found dilated, but showed no evidences of ulceration or neoplasm. The arteries however, were enormous tortuous and dilated, and pulsated The duodenum, liver and gall bladder appeared normal Because of the dilation of the stomach a posterior gastro enterostomy was done In addition, the gastric (coronary) artery and the gastro epiploic arcade were each lighted at two

The gastric hæmorrhages ceased entirely after the operation Five years later they had not re curred and the patient's general condition was greatly improved

The second case was that of a man of 35 years who bad bad digestive disturbances for ten years Two years after their onset, a gastro enterestomy was performed and resulted in some improvement Eight years later three suddenly occurred a severe melena which persisted. Physical examination of the abdomen and N ray examination of the stomacon were essentially negative. The stomach was small and the gastro enterostomy opening was function ing normally.

At operation the stomach was opened and the mucosa throughle vephored but no trace of ulceration was found. Blood fairly gashed from the gastic incision. In this as in the first case, the gastic vessels were enormously dilated. The right gastic opiplior after, was fortuous and its volent pulsations were transmitted to the gastic wall. On the assumption that this vessel had been responsible for the bleeding it was lighted at four points and

divided between ligatures close to the pylorus

The patient made an uneventful recovery. When
he was seen again five months later he had had no

further homorrhage LANGELCE JACQUES M D

Sturtevant M and Shapiro L L Gastric and Duodenal Ulcer Frequency Number Size Shape Location Color Sex and Age in 7760 Necropsy Records at Believue Hospital New York 47 h Int Med 1930 Yevens 41

Autopsy statistics probably afford the best means of determining the frequency of gristric and dwodenal ulcer. While they are open to certain objections they are undoubtedly more rehable than medical

diagnosis or surgical observation

In 7,00 autops. records made at Bellevue Hospital New York in the period from 1004 to 1922 it was found that gastite and duodenal ulcers considered together were less frequent than is indicated by most statistics. This finding was due to the low incidence of gastric ulcer. The incidence of duodenal ulcer was about the same or a little higher than that indicated by other statistics.

A gastne or duodenal ulcer or the evidence of healed lesions was found in 2 per cent of the autop sies. One and a half per cent of the ulcers were gastne and 0 5 per cent were duodenal. According to nearly all statistics ulcer is much less common in

America than in Europe

About o per cent of the gastric ulters were multiple. This compares closely with other statistics. About half of the duodenal ulters were multiple a higher percentage than is given by other statistics.

The average linear measurement for single gastine ulicers was 23,6 m. With one exception the size of the ulcers decreased as the number of the lessons in creased. The duodenal ulcers ranged from less than 0.5 to 2 cm in diameter. No noteworthy change in the size of the duodenal ulcers was noted when they were grouped according to number.

Most of the gastric ulcers were round but about 5 per cent were oval \limits tall of the duodenal

ulcers were oval or round

Seventy six per cent of the gastric ulcers were found near the pylorus 12 per cent near the cardia and r per cent in the midgastric zone. Of nine on the anterior surface three were near the pylorus. The duodenal ulcers were nearly all in the first portion of the duodenum but in seven cases of multiple duodenal ulcers the second portion of the duodenum was involved. Also in two cases of entireling ulcer the lesion extended to the second portion.

Two gastric but no duodenal ulcers were found in colored persons. The incidence of gastric ulcer was about three times as high in males as in females while that of duodenal ulcer was slightly higher in males than in females. CVRIL GRISPEL W.D.

Laher F H The Scheme of Management of Gastrle and Duodenal Ulcer in This Clinic Surt Clin \ 1m 1026 \ \ 1 605

The author tates that the lack of agreement between the internit and surgeon as to whether peptic ulcer should be treated by medical or surgical measures is due to a lack of friniharity of each with the successes and failures of the other.

and an expension of the state o

The results of medical treatment cannot be stated so definitely since as yet there are no available fig

ures with regard to persisting cures and recurrences
At the Lahey Chinc all patients with peptic ulcer
everyt those showing definite indications for surgers
are put to bed for three or four weeks under the
neutralization regime devised by Sippy. In a largepercentage of exist this treatment brings about a
disappearance of blood from the stools and improve
ment in the 'try'defect.

Cases regarded as unfit for non surgical treatment are those in which malignancy is suspected those with perforation those in which the symptoms can not be relieved in seven days those in which occult blood cannot be mide to disappear from the stools in fourteen days and those with pulping stenosis

In doubtful case of carcinoma much helpful in formation can be obtained by noting the effect of medical treatment. If the symptoms are not re heved the \times ray defect persists and occult blood is still present in the stools after a week or two, radical

operation is justifiable

Without such evidence from medical manage ment exploratory operation is of little value as it often reveals a small deep ulcer which cannot be diagnosed as mylighrint or benign from inspection alone. The surgeon must then either close the abdomen and watch the progress of the condition perhaps leaving a carcinoma behind or subject the patient to the danger of partial gustrectomy when the lesion is an ulcer that implif be cured medically

In operable cases of frank gastric carcinoma partial gastrectomy must be undertaken. Whether this operation should be performed for a benign lesion depends considerably upon the skill of the surgeon. When there is considerable doubt, it is perhaps better to do a conservative gastro enter ostomy even with the risk of gastrojejunal ulcer. If necessary, this may be followed by a radical oper ation later when conditions for it will be more favorable.

CYRIL J GLASPEL MD

Grégoire, R The Contra Indications to Surgery in Gastric Ulcer (Les contre indications chirurgi cales dans luicère de l'estomac) Bull et mem Soc nat de chir, 1926, lii 184.

There are periods in the course of a gastric ulcer during which there is a distinct exacerbation of the infective process. These are characterized by an elevation of temperature, which may reach 30 degrees C or more, a corresponding elevation in the pulse rate, an increase in the intensity and duration of the pain, and the occurrence of gastric hamor rbages Operative interference during such periods is attended by the gravest danger because of the tendeacy of the manipulations to disseminate the infection Surgical measures should therefore be delayed until the crisis bas entirely subsided Two cases are cited to illustrate respectively the danger of operating at such times and the safety with which surgery may be resorted to when adequate time has been allowed for subsidence of the exacerbation

In the discussion of this report, Duval cited a case in which encapsulated diplococci were found on microscopic examination of an excised pylonic ulcer. The patient died soon after the operation from pneumococcus pneumonia, attributed to the dissemination of the infection from the ulcer.

DUMARIER suggested that the reason why gastro enterostomy alone proved to be safer than gastro enterostomy with excision in Gregoire's cases was that the former required less handling of the tissues

CUMO stated that he also advocates gastroenterostomy alone in cases with acute inflammation. He has been able to demonstrate streptococci in all of the inflamed ulers which he has subjected to microscopic examination. An acute princreatitis may follow gastric operations, particularly resections.

LECEVE performs gastro enterostomy alone for the small mobile, slightly inflamed ulcers Exten sive, indurated ulcers he treats by resection made as wide as possible to avoid the danger of passing too close to an infected lesion

LAWRENCE JACQUES M D

Bohmansson, G The Surgical Treatment of Gas troduodenal Ulcers with Particular Regard to the Operative Anatomy and the Postoperative Digestion Physiology with a Contribution to the Question of the Surgical Treatment of Acute Ulcer Remorrhage Acta Chirurg Scand 1926 It Supp vii

Studies of the anatomy of the stomach during recent years by Forssell, Perman, Djorup, and

Usadel have shown that the circular muscle fibers the branches of the vagus, and the main vessels of the submucosa take a parallel course in the ventric ular wall. For the maintenance of a surgical anasto mosis and the postoperative mothly of the stomach it is important to prevent injury of these anatomical structures during operation. Even granting that the direct impulses to contraction of the muscular apparatus are clicited by the autonomous nervous system, the efficiency of this activity is regulated by the extriventricular nerves sympathetic and parasym pathetic Experimental physiology seems to indicate also that these nerves are of importance for the qualitative regulation of the glandular secretion in the stomach.

In all cases of ulcer Konjetzny Orator, and Kalima have found a gastritis localized chiefly in the pyloric antrum This observation has been con firmed by the author's findings in freshly resected specimens. In all cases of ulcer there is an indisput. able gastritis which is independent of the location of the lesion In the more chronic cases, plusma cells and regressive changes are predominant, whereas in more recent cases and in acute exacerbations in chronic cases additional leucocytes in great numbers and not infrequently suppurative processes in the mucous membrane and miliary phycesses are found The constant presence of plasma cells even in acute ulceration of the mucous membrane with hæmor rhage indicates that the gastritis is older than the ulceration

In all probability the inflammation in the pylone part of the stomach is primary and constitutes one, and perhaps the most important, factor in the so called gastric ulcer dathesis. In cases of chronic ulcer with hancidity there is generally a condution of atrophic gastritis with increased connective tissue formation and glandular atrophy. In cases of acute ulcer the inflammation is more intense. The varying degrees of acutety may possibly have something to do with the different stages of gastritis.

The treatment of ulceration should be directed primarily against the associated gastrits and should consist of medical treatment with careful regulation of the diet or of radical operation. Internal treat meot is best suited to early cases. In cases with advanced changes its effects are generally of short duration.

Surgical treatment is indicated in certain acute complications, organic obstruction, or suspected malignancy and in all chronic cases in which medical treatment has been tried but has given only unsatis factory or temporary results. If the history is a long one and the anatomical changes are of a serious nature, surgical interference may be advisable even without previous medical treatment.

If the history is indicative of chronic ulcer, operation should be undertaken without delay when sudden hamorrhage occurs. In acute ulceration of the nucous membrane with serious hamorrhage, operation should be performed only when it is vitally necessary.

When operation is undertaken for chronic ulcers its purpose should be not only to eliminate the risks of the ulcer itself but to relieve the gastritis the predisposing factor. Palliative method mean pro longed after treatment with dieting and should be resorted to only on rate occasions when radical measures are impossible and medical treatment has been tried for a sufficiently long time without avail.

The best clinical results with minimal disturbance of postoperative digestion will be obtained by a method which on the one hand eliminates the ulcer and the pylonic antrum and on the other hand stores the phisological duodent) pa sage and brings the rhy thmich emptying of the stomach under one of the store of the property of the stomach under one of some other parts of the store of posterior of the store of the store

The primary mortality of this operation has been less than 2 per cent. In no case was there any retur rence during the time of observation. Of the patients followed up after operation op per cent had been considerably, benefited and 92 per cent had been considerably, benefited and 92 per cent had been considerably to the considerably to the considerably to the considerably to the considerably of the solution of the considerably the considerably the considerably the considerable con

The postoperative digestion depends much more upon restoration of the physiological pa sage through the duodenum and a normal gastric motility than upon the postoperative gastric chemistry.

Walton A J An Operation for Gastric Ulcurs of the Lesser Curve Surg Giner & Obst 1926 alm 593

Whenever po shile the operation selected by the unthor for gastric uleers of the lesser curve is wide existion followed by temporary occlusion of the py louis and posterior ga tree interostomy. However if there is a narrowing at the site of the ulter leading to marked our intention of the hourglass type or if the symptoms even slightly suggest the onset of accrational the operation preferred to partial gas trectionly by the modified loba method. In cases of very large uleras strusted high up and firmly adherent for the pararress a simple gastro enteros very or so latter a second operation is performed. by the end of that time the ulter may have so decreased in size that excession is relatively easy.

Walton states that if modern methods including the test meal and \tau examination are used there are few if any complications which will not be recognized before operation. Such complications are a second ulcer at the pi lorus or in the duodenium gall stones and appendicture. The greatest difficulty at operation is caused by, firm adhesions to the pair constant of the ulcertain at the site of execution which is very great when simple incisson alone is directly and the size of the constant of the size of the constant of the size of the constant of the size of the constant which is very great when simple incisson alone is already wholl be directly and the size of the constant of the size of

ment of the ulcer is supplemented by posterior gas

In the operative procedure described by the author the stomach is drawn out of the wound and the lesser curvature and its anterior surface are examined. An opening is then made through an avastular area of the gastrocolic omentum and the posterior surface is explored. When the ulcer is found an opening is made in the lesser omentum above it and the coronary artery is ligated both above and below it. One blade of a clamp is the passed through the opening in the gastrocolic omen turn and out, through the opening in the gastrocolic omen turn and out, through the opening in the sesser made clamp is placed in a similar manner below the ulcer. A wedge excision of the ulcer is then done beginning on the anterior wall.

The posterior wall of the stomach is closed with a rinning siture of catquit which terminates and i tied at the lesser curvature. A second suture passed through all thicknesses of the posterior wall is also tied at the I seer curvature. The opening in the anterior wall is sutured in a similar manner the first row of sutures passing through all three layers of the tomach and the second through only the serous and muscular coats. The latter suture is send the complete of the time of the serous and muscular coats. The latter suture is the past of the serous and muscular coats.

muscular coat

The pylorus is embedded with a running matters suite of sile so as to himp about a temporary occlusion. I outstine no loop gastro enterostomy with the use of the jenum in stein performed the opening in the stomach being made transversely as close a possible to the greater curvature. One half of the opening is provimal and the other half distal to the sutured the of excession. This assures neutralization of the acid contents high up in the stomach. If hourglass construction follows both pouches of the stomach will be drained by the gastro enterostom?

Vomiting due to obstruction the so called vicious circle is today very rare. In most cases it is probably due to constriction of the opening in the meso colon and may therefore indicate an error in technique. It is most apt to occur when posterior gastro enterostiony? i performed on a patient with a lat or adherent mesocolon or the opening of the mesocolon is not sutured to the stomach sufficiently lar from the anaxtomoss. When it is temporary it is probably due to cedema of the opening of the theorem of the opening of the theorem of the opening of the temporary the probably due to cedema of the opening of the temporary the sprobably due to cedema of the opening of the temporary the sprobably due to cedema of the opening of the temporary that the probably due to cedema of the opening of the temporary that the carried out on the assumption that the condition is due to orden.

The op rative mortality of the method described is relatively low not exceeding 2 per cent. Ninety per cent of the patients are completely cured. Of the remainder the majority may have infrequent attacks of comming and discomfort. Such attacks

occur practically only in women who are suffering from visceroptosis in addition to the ulcer of the lesser curvature, a combination which is not un common. The type of lesion described is almost never followed by postoperative gastrojejunal ulcer and rarely by carcinoma. John J MALONEN MD

Holmes C W, Dresser, R and Camp J D Lymphobiastoma 1ts Gastric Vanilestations with Special Reference to the Roentgen Find ings Radiology 1926 vii 44

This study is based on eight cases of himphoblastom of the stomach observed at the Massa chusetts General Hospital, Boston, and a review of the literature The cases observed are tabulated with regard to the gastro intestinal symptoms and the roentgen, surgical and pathological findings. The histories of three of them are reported in detail

General consideration is given to the classifica tion pathology, symptoms, and clinical course. In the comparatively few records of cases with gastric involvement which have appeared in the literature, the roentgen findings are very meager All of the cases observed hy the authors were subjected to roentgen examination. In two the roentgen picture was negative, in five it showed filling defects and in one it revealed an irregular deformity of the an trum The roentgen appearance did not differ from that of carcinoma, except that in some of the cases the penstals was not interfered with to the extent generally seen in carcinoma. The diagnosis based on the roentgen findings was carcinoma in five cases and lymphohlastoma in one The possibility of the presence of lymphohlastoma in all atypical cases showing carcinomatous like deformities should be ADOLPH HARTUNG M D considered

kohler, II An Approach to the Duodenum Through the Left Thoracic Cavity in Retro peritoneal Perforation of the Duodenum (Ein Weg zum Duodenum durch die linke Brusthoehle bei retropentonealer Duodenalperforation) Deutsche Zischt f Chir 1926 exciv 212

In the case of a young woman with a perforated duodenal uleer the author first assumed a conservative attitude hut eight days after the perforation resection of the eighth rib on the left side hecame necessary because of empyema. Seven days later, after enlarging the rib resection wound and resecting a greater portion of rib Kohler split the diaphragm in the median depression of the dome under the guidance of his fingers. By this route he was then able to approach the head of the pancreas and the site of the perforation on the posterior wall of the duodenum and to drain the latter externally. Three days later he drained a perinephritic abscess on the left side through the diaphragmitic wound. The patient recovered

Kohler suggests this approach to the site of per foration in cases which reach the surgeon after the time for the usual operations has passed In such cases the abdominal findings often simulate those of

an ahdominal perforation, the peritoneum heing severely irritated. The differential diagnosis is facilitated by the early though slight participation of the left pleural cavity. Vo. Redwitz (2)

Hamilton, A. J. C. Intersigmoid Hernia Edin burgh M. J., 1926, n.5, xxxiii, 448

The intersigmoid fossa is present in from 70 to 80 per cent of hodies. It is found most consistently during the fifth and sixth months of fetal life.

It hes in front of the left ureter and the left common iliac artery, near or at the bifurcation of the latter. Its usual depth is between 2 and 3 in. Its orifice which is oval or circular and measures about 1/2 in in its widest diameter, lies at the medial border of the left posas muscle.

Intersignoid herma is the ratest of all retropers to neal herma. The total number of reported cases is fifteen. All hut two of the fifteen subjects were males. In most of the cases there were signs and symptoms of acute intestinal obstruction. In all hut two the content of the herma was small intestine.

The author reports a case which presented the signs of recurrent suhacute strangulation which finally became acute JACOB S GROVE M D

Kantor J L Colon Studies III The Clinical Significance of Ileal Stasis Its Association with Colitis Am J Roentgenol 1926 xv1 1

This study is based on 161 cases in which the emptying of the ileum was observed satisfactorily after the administration of a standard opaque meal. The following technique was adopted.

A standard meal consisting of barium sulphate in a pint of fermilac was administered in the morning Six hours later, an observation was made to determine whether the stomach was empt. All cases showing the slightest residue were excluded from the series. The patient was then instructed to take a mixed meal in order to stimulate the discharge of the ileopyloric reflex. Nine hours after the injection of the original harium meal another observation was made to determine whether or not the ileum was empty.

Retention of part of the opaque meal in the ileum at the time of the inne hour examination was regarded as stass. Sex age, gastric acidits habitus, and ileocæcal insufficiency were not found to evert any definite influence on its occurrence, and ordinary constipation mechanical obstruction and so called chronic appendicitis were not of much importance Congenital anomalies of the colon plaved a marked role as did also excell stass. The association of ileal stass with colutis was one of the most striking find ings brought out by the study.

The author's summary of his findings and his conclusions is as follows

- r Ileal stasis occurs in over three fifths of all
- patients

   It does not seem to be so directly associated
  with constipation in general as it is with cæcal stasis
  in particular

3 It is not commonly associated with obstruction due to mechanical factors

4 It seems to vary inversely with the degree of descent of the execum (length of the execotion)

5 It seems to be definitely associated with a state of lowered receptivity of the colon as indicated by increased irritability and expressed chincally by the presence of colitis

6 It is accordingly best explained as a functional defense reaction for the protection of an injured segment of the intestinal pathway It may therefore be transient or recurrent as well as continuous in its operation
7. This study seems to support the block system.

control theory of gastro intestinal motor function
ADDLPH HARTUNG M D

### Carman R D and Moore A B The Roentgeno logical Findings in Ulcerative Colitis Am J Roentgenol 1926 vvi 17

By chronic ulcerative colitis is meant that form of colonic ulceration which is not caused by para sites tuberculosis of sentery actinomycosis or ajphilis Logan has collected the records of cocases seen at the Mayo Chine and has described two climical types. In one type there is little systemic reaction. In the other the disease is accompanied by extreme protration. The stools are profuse and watery and contain much blood and mucus. Micro water and other specific originations. With the proctocope areas of ulceration may be discovered in the lower segment of the large hovel.

Roentgenological examination is best made with the harium enima. In the early stages of the disease spasm is the chief recritgenological anding that does not distinguish the condition from other forms of colins. However the persistence of spasm after the administration of beliadona in conjunction with the proctoscopic andings may assure the diagnosis and the control of the contr

Burgen J A The Etiology and Treatment of Chronic Ulcerative Colitis im J Roenigenol

19 6 xvi 10 Chronic ulcerative colitis was first described by

Wilks and Mozon in 18,5 and by White in 1888 Various bacteria have been considered of importance in the etiology of the condition but many workers have found some form of streptococcus in predominance, frequently in diplococcial arrange ment. The experimental evidence indicates that symptoms, pathological changes completation and course of the disease strongly support the view that infection is the cau e and that the diplococcus is the cause of the Gram positive lancet.

shaped diplococus has been isolated in the vast majority of cases and it is the author's belief that if this were searched for at the proper time it would be found in all cases. Cultures of the organism in jected intravenously into rabbits and dogs have produced lessons essentially like those in intents with the disease. Distant foci of infection partie unity in the tonsils and teeth, are of vast importance in the progress of the disease. The various stages of the condition have been observed on the eypo ed loops of intestine after the performance of ileostomy and coloitomy to stop the advance of the infection. In the past the treatment of the disease has varied from the use of a bland no residue diet local and

from the use of a bland no residue diet local and topical applications and irrigations and non specific vaccine treatment to surgical treatment by excos tomy colostomy ileosigmoidostomy and ileostomy Chinical results establish the importance of (1)

immuni ation against the described diplococcus (2) the removal of all distant for of infection (3) a bland non irritating diet as a supporting agent (4) the empirical admini tration of various drugs as suds in some cases and (5) as an extreme measure surgical interference by ileostomy

# Truesdell E D The Surgical Treatment of Acute Appendicitls Ann Surg 1926 Ixxiv 104

True-dell reviews a series of 150 esses of acute appendicuts operated upon in the past seven years with a mortality of 30 per cent. One hundred and thirty cases had intra abdominal dirange, thenly-one were drained down to the peritonium. Of the specimens arriving at the pathological laboratory 30 showed arriving at the pathological laboratory 30 showed suppunitive sppendicuts. Az acute or subacute as atribal appendicuts and 25 acutes of the appendix lymphoid hyperplasia mucocele or chronic appendicuts. Six appendices were reported normale

In the author's opinion the incision of choice is the filtures; incision. Special care should be taken to deliver the appendix with minimal trauma. Truesdell rarely employ abdomnal pada. The stump of the appendix is most commonly treated by inversion but when draining must be established and time con served in the more serious cases simple ligation of ordema or inflammatory, changes in the excell wall about the base of the appendix a sature involving the wall of the occum is undestrable.

Drams of folded dental rubber are used exclusively. Occasionally a separate small incusion for dramage is made in the flank or above the symphysis. Dur ing the first few days after the operation the dram is loosened in the abdominal wall. It is then gradually shortened until it is removed from seven to ten days later.

The postoperative treatment includes the Fowler position when necessary the administration of mor phine with restraint enemata when indicated flax seed positices and the rectal tube for the reduction of distention fluids by mouth whenever possible, avage in selected cases, and the subcutaneous

administration of saline solution in cases with a toric condition or dehydration

In the case- reviewed the postoperative complications o importance were consequent upon the appendiceal inflammation and the operative wound Twelve patients with postoperative fever recove ed without surgical interference. Seven developed sec ondary abaceses which required drainage. In four ex es the yound which was closed at operation required drainage because of infection. These wounds broke down so that a secondary suture was neces ary There were two persistent sinules following primary drainage both patently tuberculous. Three patient, bled into the bowel to an alarming degree but recovered spontaneously Four developed a we'ent diarrnoza. In one case a second operation was recessary for acute intestigal obstruction Broughtts developed in three cases pleuri v in ore and pneumonia in one. In cases in which a McBur com incl. on was used and deep drainage was es ab Libed the incidence of he mia was about 8 5 per cent

There was no case of definite fæcal fistula and fleetomin was not performed in any case. Heo-toming the definition of the case the author is not convinced of its and because the author is not convinced of its

efficacy

The McBurner incis on was used in 135 of the 19 operations. This incision offers the most direct approach to the diseased appendix in the majority of case requires the least amount of breaking up or exential limiting address ons, allows the advantage ons introduction of drains, and results postoperative hermation.

The lower righ rectus inclion is best when exportion is necessary but must be made longe than
the McBurnev inclion reduces more breaking up of
which one in the delivery of the appendix and is lesall tible to drainage. The right rectus inclion is
better for an operation performed by the sense of
sight and the McBurnev inclion for an operation
performed largely by the sense of teeling. In acute
armical conditions of the lower abdomen of dubbtuil
ration and especially those allocated with evidence
of performing the operation of the first rectus inclion. Do K. Herkeney M.D.
the praint rectus inclion. Do K. HERKENS M.D.

# Clute H.M Sobphrenic Infection After Appendicitis Surf Cir \ 4m 19.6 vi. 773

The author reports in detail a case of acute gargrenous spendents with perforation which he operated upon forti-eight hours after the onset of the condition. The appendix was removed under direct vision and a large organite drain was in erfel. After a few division of the symptoms of tensions had dispipered and the patient's general condition was much improved but his tem prature remained constantly elevated around 102 degrees F.

Peristen fever following a laparotomy is almost allowed due to infection in the wound the pouch of Diuglis or the subphrence space. Infection of the wound issually causes pain and tenderness.

around the wound A collection of pus in the pouch of Douglas usually causes rectal pressure and tenes mus or deep pelvic pain. A subphrenic infection usually produces no subjective symptoms except perhaps rapidly increasing weakness.

In the case reported the wound could be ruled out as the source of the fever and there was no evidence of infection in the pouch of Douglas. Yeay examination of the chest showed find in the right pleural activity, and on aspiration of the chest clear non infected fluid was obtained. A simple serious pleurists nearth always present in the chest when there is pas just beneath the disphragm. Several punctures were made into the subphrence space in the tenth interspace in the right individually line and even trulls a large quantity of foul smelling pus was obtained. This abscess was drained by a two-stage operation.

"Under local aussiblesia, a 2 in portion of the tenth rib was removed at the site of the puncture which had returned pus, the pleural cavity was opened and the parietal pleura was subured to the daphragm with a running sittle. The wound was then packed with gauze for forty-eight hours to allow him adhesions to form before the absecss was

Two days later the abscess was opened under nitrous onde anesthesia by cutting through the diaphragm A Lirge amount of pus was evacuated Following the drainage the temperature returned to normal and the patient made an univentiful recovery CYPEL J GLASPEL M.D.

### Heald C L A Simple Bloodless Operation for Anorectal Prolapse in Children Sirg, Gyrec & O 1 19 6 xlii S40

The operation described hy the author is pertormed under general anasthesia with the child in the domal position its legs supported by an assistant After reduction of the prolapse a small bivaly e rectal neculum is introduced the blades of the speculum are opened laterally and the lower rectal mucosa is swabbed with a r per cent aqueous solution of mercu rochrome The sacrococcygeal junction is then located by interting the index finger and a 3 in . three-eighths-circle curved needle on one end of a coarse silkworm gut is in erted through the posterior rectal wall through the notch at the sacrococcy geal angle and brought out through the skin posteriorly A needle on the other end of the same suture is then pa\_ed in the same manner on the opposite side of the coccyx A second similar suture is placed 32 in lower and brought out on each side of the coccyx

Both satures are tied rather tightly over a folded gauze compres. The gauze is kept div by a cover of rabber dam sealed to the skin with narrow strips of adherive which are in turn protected from moniture by rubber correct

The child is kept in bed for three or four days During this time paregoric is given to prevent bowel movements. At the end of two weeks the sutures are removed The efficacy of this method depends upon the tendency of silk worm gut under tension to cut its way through the tissues. As the suture slowly cuts through the rectal wall and the surrounding tissues healing by granulation occurs with the formation of firm connective tissue adhesions.

ANTHONY I' SAVA M D

Jacobs A W Carcinoma of the Rectum and Sig moid Analysis of 121 Cases Results of Treat ment by Radintion Surg Gynec & Obst 1926 this 50

From a review of ninety one cases of carcinoma of the rectum and thirty cases of carcinoma of the sigmoid Jacobs concludes that there are no subjective symptoms characteristic of these conditions

Blood in the stools is usually a late manifestation and constipation does not become very evident until the growth has reduced the caliber of the gut to such an extent as to produce a stricture. Rectal examination revealed a mass in over 70 per cent of the cases.

Flatulence and indigestion associated with stool irregularity and melana demand careful local examinations. In addition gastro intestinal \(\times\) tay proceedings sigmoidoscopic and biopsy examinations.

should be made

Surgical statistics have shown that so far as mortality and recurrence are concerned the most unfavorable period for operation is between the thirtuth and fortieth years of age. They show also that while the very old ure more liable to die from the operation than the young their chance for permanent recovery is better.

In the more advanced case the proper combination of surgery and radiotherapy can accomplish something toward the alleviation of symptoms and the control of the growth of the neoplasm

Radium properly applied has a definite inhibitory and destructive effect on the majority of rectal neo

plasms

In addition deep roentgen therapy should be given in the pelvis to inhibit metastasis by destroying or decreasing the amount of lymphatic tissue and to destroy or inhibit the growth of metastatic modules IAKUB S GROYE MD

Lockhart Mummery J P and Gordon Watson Sir C Discussion on the Complications of Excision of the Rectum Prace Roy See Med Lond 19 6 xir Sect Surg 18

The immediate complications of excesson of the rectum are spins shock harmerthage delay of heal ing orchits epideth mits intestinal obstruction unitary complications sloughing of the gut bron chits pneumonia pulmonary, embolism and hemilega. The remote complications are narrowing of the colostomy opening ventral hernia sacra herma in the periodic sacra that accumulation of material in the blind end of the gut after periodic resection en largement of the prostate and persistent plantheas. Morris II & F. M.D.

LIVER GALL BLADDER PANCREAS

Copher G H Kodama S and Graham E A
The Filling and Emptying of the Gall Bladder
J Exper Med 1926 the 65

As a result of the control of the flow of bile into the duodenum largely by the tonus and movements of the duodenum labe intermittently enters the gall bladder where it is concentrated and undergoes other changes. The gall bladder is emptted through the cyster duct (if by the washing out of its contents by bile from the later (2) by the elasticity or contractule mechanism of its washing (3) by variations of intra abdominal pressure due to respiratory movements configuous organs et cand (4) by absorption of a portion of the contents of the gall bladder through its washing the contents of the gall bladder through its washing the contents of the gall bladder through its washing the contents of the gall bladder through its washing the contents of the gall bladder through its washing the contents of the gall bladder through its washing the gall bladder through the gall bladder through

The gall bladdet is never entirely empty but tends to come to a state of partial collapse when its contents are under minimal pressure. Rhythmical contractions of the gall bladder due to its musculature have not been demonstrated. If they occur them as and, but they are not essential to its emptying

or filling

In experiments on dogs a rubber bag which was substituted for the gall bladder functioned in a manner very similar to that of the normal gall bladder as shown by cholecystographic studies. The concentrating function however was absent Morski II. Kain, M.D.

Mentzer S. H. A Clinical and Pathological Study of Cholecystitis and Cholelithlasis Surg Gives of Obst. 1926, vhi. 182

Sity six per cent of 612 consecutive autopases at the Mayo Chune showed grossly usible pathological changes in the gall blidder. Seventy five per cent of the gall blidders showed microscopic pathological changes. Seven and seven tenths per cent of the deaths were due to disease of the gall bladder per a Call bladder disease is essentially a disease of adult the The youngest patient in the series was a girl aged 13 teats.

Eight per cent of the diseased gall bladders showed only minor inflammatory, changes Cholesterosts of the gall bladder is essentially a non inflammatory disease. It was present in 38 per cent of the total sense Eight; two per cent of the women who had been pregnant had some grossly visible gall bladder disease. Sixty four per cent of them showed cholesterosis only. In 70 per cent of the pritients weighing more than 120 lbs this lipid disturbance was grossly, shalle in the gall bladder wall. Gall stones were lound in 22 per cent of the adults 17 per cent of the males and 28 per cent of the females. The youngest patient with gall stones was a woman 23 years of age.

Hydrops of the gall bladder was found in 7 per cent of the series. The inflammatory changes in the gall bladder wall and in neighboring organs were less myrked in cases of stones rich in cholesterin than in

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removal are that the blood runs down and obscures the ducts more drainage is required than in the other procedure and there is much more hemor

rhage

The removal of the gall bladder from below up ward requires first of all an adequate incision. The cystic and common ducts are made prominent by traction upon them and the peritoneum over them is divided so that all structures (cystic duct and artery) are exposed The cystic artery is ligated separately and the stump of the cystic duct and artery is covered over by suturing the peritoneal The common duct may be recognized from the network of vessels on its wall. More than half of the common duct lies behind the duodenum. For the exposure of the retroduodenal portion of the duct an incision must be made in the parietal peri toneum just external to the duodenum. In this area there are numerous small blood vessels that require CYRIL I GLASPEL M D ligation

Floercken H Recurrent Pain and Discomfort After Operations on the Bile Passages with Particular Regard to Anastomosis Between the Biliary Tract and the Duodenum (Ucber nuck facilities Schmerzen und Beichwertein anch Opera tonen an des Gallensegen mit besonderer Beruck Zoodfingerdam) Deutsteke Zitzer [Chr. 10.6

cen: 15

In cases re examined hecause of recurrent discomfort after operation upon the hihary tract the
author found colic fever and interus due to a persisting cholangetis with or without overlooked
stones reflex spasms of the stomach and sphinicter
Odda raising from the scar area or cysic stump
or constant pain due to the formation of a hermia
adhesions changes in acultiv or chronic pancrea
titis. In some cases there were diseases of other
orans such as renal lesions and duodenal uler-

organs such as renat restores and about an uter.

The results have been considerably improved since Floercken has performed his anastomosis be tween the choledochus and the duodenum in all cases in which the duct is dilated its contents are turned and kternus lapresent. The method is contra indicated however when the wall of the bihary duct is frable when there are anatomical difficulties and when ascardes are present. Floercken has never observed ascending cholangettis.

In 320 cases in which a re-gammation was made after the operation wood results were found in about 500 per cent. According to statistics the best treat mentise early operation in the form of a simple resortion without drainage of the hepatic duct. Chole dochoduodenostomy gave considerably better end results than were obtained in the cases with drainage.

In the treatment of the postoperative disturb ances the Carlsbad cure is recommended. In suit able cases atropine and the instillation of magnesium sulphate into the duodenum with the duodenal sound may be considered. When there is no per sisting cholangetus but Head s zones are found the

parasetebral injection of novocain tutocaine or dolantin in the tenth dossal segment by Laewen's method is indicated. In cases of floating kidney with pelographically demonstrable changes in the renal pelvis and the ureter nephropery is beneficial. In cases of recurrent febrile colic which do not respond to duodenal intubation another laparotomy should be performed for the removal of an overlooked stone or the treatment of stenosis of the hiliary passages

Rufanoff I G Pancreatitis Associated with Cholecystutis Experimental Studies (Pankra tits im Zusammenhang mit Cholecystuts exper mentelle Untersuchungen) Verhandl d 16 russ Chir Kont Vessed 102, p 624.

To determine the causes of acute hæmorrhagic suppurative and chronic paincreatitis and the part played by cholecystitis in the pathogenesis of pan creatitis the author carried out the following experiments on suity-one dogs:

I The introduction into the pancreatic tissue of physiological sodium chloride solution alcohol hac

teria or bile ten experiments

2 Ligation of the various ducts (cystic duct common bile duct and pancreatic duct) eight ex periments

3 The introduction into the gall bladder of stones and sand with and without infection twenty experiments

4 Intraduodenal ligation of the papilla of Vater with and without ligation of the duct of Santorini and with and without the introduction of infection into the gall bladder twenty three experiments

From the findings of these studies it is evident that acute hemorrhagic pancreatitis usually develops after the entrance of infected bile into the pancreatic tissue when the escape of pancreatic juice is obstructed. The supputative inflammation is the result of the direct entrance of infection into the tissue of the gland.

Without touching upon the internal secretion of the gland the author emphasizes the great resistance of the islands of Langerhans which always remain intracteven when the tissue of the gland is destroyed. This finding corresponds to the clinical picture of paracreatitis since in most cases the condition runs its course without the appearance of sugar in the urine.

In Rufanoff's opinion the most correct theory regarding acute harmorrhagic pancreatitis is the ferrmentation infection theory. The cause of death is intoxication not harmorrhage.

In conclusion the author states that pancratitis is a sensity complication of inflammatory processes in the bihary passages. It is prevented by early surgeal intervention in such cases. In acute pancratitis the bihary passages should always be examined and dramed and in chrome pancreatitis with compression of the common bile duct an anastomosis to the gratro intestinal tract should be made.

SCHAACK (Z)

Berssow, I The Relation of the Change in the Blood Forming Function of the Spiece (De-Verandering des Bluthides nach Spiece (De-Verandering des Bluthides nach Spiece (De-Verandering des Bluthides nach Spiece) and Zusammenhang mit der bluthidenden Funktion der Mit). Cher Summell & propadeut chr Kluu u d Inst f krebsforsch, I Voskauer Staatsum v 1200, p. 38

After splenectomy there is first a lymphocytosis and later an eosinophila. Many investigators reckon the percentage content and not the absolute numbers of the various cell forms and thereby obtain apparently contradictory results. The blood findings should be given in absolute figures and expressed graphically, as the curves will reveal the mechanism

of origin of the cells

The author is of the opinion that the lymphocitosis following splenectomy is the result of the cessation of the action of hormones which restrict the formation of lymphocytes. The effect of these hormones is exerted through the authonmous nervous system. After excluding the action of this system by means of atropine the author was able to decrease the lymphocy toosis from 10 to 70 per cent Beresow made determinations also in the cases of ten patients in the stationary period and studied the labile leucocytosis which occurs after the inges tion of food

The blood picture after splenectomy closely re sembles that of Basedow's disease. The author was unable to confirm the finding of a very marked cosmophila. On the other hand, a moderate cosmophila occurs in all vagotonic conditions and is of the same nature as the 1 mohory tosis.

The red blood cells were studied in twelve sple nectomized dogs. The number rose about 10 per cent. In cirrhosis of the liver in min it increases about -5 per cent, while in hæmolytic icterus in man it increases about 30 per cent. The transitory polycythæmia which increases after the removal of the pathological spleen demonstrites the hæmolytic function of the spleen. The lymphocytosis, which constantly becomes more labile, proves that the spleen not only takes part in the lymphocytosis by means of its follicles but also with the aid of bor mones formed in the reticulo endothelial apparatus, has a part in the regulation of bæmatopoiesis.

REINBERG (Z)

# GYNECOLOGY

#### UTERUS

Bland P B The Conservative Treatment of Un complicated Retrodisplacement of the Uterus 1m J Obst & Gynce 1926 xtl 89

Probably no condition arising in the human body has been so often falsels accused of causing symp toms both systemic and local as uterine displace ment. For no other disturbance has such an array of their petition methods both medical and surgical been used with almost equally uniform failure to give symptomatic relief.

The teaching that the uterus is maintained in position by a combination of the pelvic ligaments is not correct. Usually the round ligaments are observed as two cylindrical or ribbon like cords passived traversing the sides of the pelvis from the internal abdominal rings to the uterine cornius. Rarely are they seen in a state suggesting in any way that they

sustain the uterus

The round ligament operation is now performed relatively seldom. Indeed if the conservative plan gradually evolved and adopted during the past few years may be regarded as a criterion of the future it is obvious that uncomplicated cases will be treated if treated at all along ultraconservative lines. It is probable that simple malpositions will be regarded more from a physiologue anatomical standpoint than a publoological standpoint.

Jacobioghas stance of the category of surgical dislegitimately placed in the category of surgical dislegitimately placed in the category of surgical dislegitimately placed in the category of surgical disterms of the category of surgical disterms of the category of surgical disterms of surgical prolapsed uterus. In such condtons considerable more surgical than simply short
ening of the round ligaments or forward fixation of
the latents in necessary. E. L. Consert M.D.

wierus is necessus

Mikels F M Conservative Treatment of Cervical Erosions with Electrocongulation Snrg Cynic & Ob 1 1926 xlui 105

The author describes and classifies the various types of cervical erosions and discusses various

forms of treatment

In treatment be electrocoagulation the patient is placed in the dorsal position on an auto condensa tion pad connected with the indifferent pole of a dArsonal current or the common outlet of dra thermy current and the point of the electrode is built of placed in the mucosa to a depth sufficient to include all pathological tissues when the current is turned on

From 2 to 500 ma will give sufficient heat to coagulate the tissues thoroughly. The diameter in volved depends somewhat upon the length of time the tissues are exposed to the current. The dosage depends upon the judgment of the operator. Care must be taken to prevent too extensive congulation

Milels advises complete coagulation of all simple errors which do not respond to medical treatment and of all complicated crossons to remove pathological tissue. He regards this method as the most conservative traitment of inflammatory lesions of the cervit and the greatest safeguard against the development of secondary miliganicy.

ALBERT W HOLMAN M D

Wolfe S A The Clinical and Pathological Features of Puberty Hemorrhage im J Obst & Gynec 1926 vn 45

Puberty hamorrhage is a definite clinical entity a menorrhagia or mctrorrhagia occurring in the absence of inflammation neoplasia and pregnancy. The soft patulous cervix is pithognomome. The body of the uterus may or may not be enlarged. The symptoms recur after curettage but are always controlled by radium.

The curettings are abundant thickened and fre quently polypoid. Their character is due to a diffuse glandular stromal and vascular hyperplasia.

The persistence of solitary ripening follicles or the smultaneous maturation of multiple follicles changes a phs sological endometrial hyperplasia into a pathological hyperplasia. These changes have been experimentally reproduced by Frank and others in labora tory animals.

Corpus luteum formation is absent The uterus is the site of the bleeding. The hæmorrhage is due to thrombosis of the endometrial vessels with ensuing necrobiosis and to the mechanical rupture of engored contiliaries.

The factors maugurating persistent follicular cysts in the ovary with their concomitant endometrial hyperplasia remain a subject for future study

E L CORNELL M D

Hitzanidés E Axial Torsion of the Fibromatous
Uterus (Torsion axiale de l'uterus fibromateux)
Gince et ofst 1926 xiii 103

Axial torsion of the uterus is rare only eighty five cases having been reported in the literature to date It is associated with large tumors and seldom occurs in momen under 40 years of age. As a rule the tumors are implanted in the fundus of the uterus near the median line.

The pathological changes which accompany the torsion are for the most part the result of interference with the blood supply. The uterus becomes pass through all the stages of degeneration as far as gangene. The ovaries and tubes and even the broad ligaments share to a greater or less degree the

circulatory stasis in the uterus. The point of rota tion is the functure of the body of the uterus and the cervix. At this point the uterine tissue may become completely divided, continuity being maintained only by the peritoneum Hiematometra follows occlusion of the uterine canal and, becoming infected. results in pyometra. Adhesions are common and often serve to maintain the torsion permanently In time the adhesions become very va cular with the establishment of a collateral circulation

The character of the symptome depends upon the rapidity with which the torsion occurs Acute tor sion produces acute, violent abdominal pain com parable in intensity to that of a ruptured ectopic pregnancy or a twisted ovarian cyst. The abdomen becomes rigid and tender, this making satisfactory examination impossible. The pulse and tempera ture are not altered to a degree comparable with the intensity of the other symptoms Metrorrhagia may or may not be present. When the patient is not operated upon immediately the symptoms grad ually subside exploration becomes possible and the tumor is discovered and identified with the uterus

The remission which follows the subsidence of the acute symptoms is usually of short duration, and unless operation is performed death results from peritonitis, intestinal obstruction, or internal hamor

rhage

Slow torsion may manifest itself in one of several ways It may simply attract attention to the pres ence of a uterine fibroid or, by arresting the men strual flow and causing enlargement of the abdomen it may suggest pregnancy. More commonly the tor ion progresses with intermittent attacks of pain of slight intensity which occur during the menstrual periods or after fatigue. It is only after the develop ment of complications such as the formation of adhesions to neighboring organs, compression of neighboring organs hæmatometra or pyometra de generation of the abroid or peritonitis that the symptoms become alarming and bring the patient to operation

The condition is rarely recognized before opera tion Faure and Quenu emphasize the importance of two signs amenorrboca in young women and the impossibility of introducing a uterine sound

The only treatment is surgical Usually hyster ectomy is indicated The mortality in cases operated upon has been given as 7 or 8 per cent Without operation, it is 63 per cent

The author reports two cases

ALBERT I DE GROAT M D

Bardachzi F The Best Method of Treatment of Myomata and Hæmorrhagic Metropathies with the Roentgen Rays (Ueber die zweckmaessige Be handlung der Mome und hacmorrhagischen Metro pathien mit Roentgenstrahlen) Strahlentherapu 19 6 XTI 397

The advantages of the single dose method of roentgen therapy lie in the certainty and rapidity of the effect The doses given by previous methods

were not smaller, on the contrary, they were much larger because the penetration of the earlier appa ratus was slight Today, with the use of modern apparatus in one dose sterilization, roentgen sick ness is never more than a slight and transitory indis nosition

The first Freiburg technique is dangerous in the hands of beginners Moreover it is inadequate. In irradiation of the ovaries by modern methods every roentgen burn of the skin is to be ascribed to a tech nical error It is now possible also to prevent deep injuries Holfelder's procedure has undentable theo retical advantages and is harmless, but because of the deep position of the organ in irradiation of the back large quantities of the rays are lost. Another disadvantage of this method is that it requires considerable skill

The Erlangen technique gives sure results but has two disadvantages which cannot be overcome with certainty viz the danger of injuring a loop of intestine by over radiation due to a change in the patient's position and the danger of causing embolism by the compression which is necessary The second Freeburg method is sure and harmless

However besides its many advantages it has the disadvantage of causing greater roentgen sickness due to the fact that a greater area is irradiated

Single dose irradiation requires an efficient instru ment a careful plan of treatment and exact methods of measuring In modern deep therapy the saving of time and the harmless production of the necessary deep dosage are of great importance. Because of his experience in carcinoma therapy and in irradiation of the ovary the author cannot agree with those who believe that further improvement in the apparatus as regards the production of harder rays would be useless

The single dose method is best used in a hospital Roentgen ickness may be alleviated by proctoclysis with sodium chloride solution. After irradiation of the ovaries injections of salt solution are unneces As a rule the irradiation should be given in one sitting. In cases of severe anæmia and severe hamorrhages the liver and spleen should also be pradiated Of the single dose methods the distant neld method appears to be best especially in cases of large tumors

The author believes that in the future it will be possible to so increase the deep effect of roentgen irradiation that the four three, and two field irradia tion will be abandoned for the one field method

MATAKAS (G)

Meyer R and Kaufmann C The Value of Biopsy (Ueber den Wert der Stueckchendiagnose) Zen traible f Ganack 10 6 1 20

Of 146 cases in which a portion of the portio was removed for histological examination carcinoma was found in twenty six In fifteen of the latter a clinical diagnosis of carcinoma had been made On the other hand carcinoma was found on microscopic examina tion in two cases in which it was absolutely unsus

In 117 cases the lesions were pected clinically henign erosions and ulcerations

482

Of 250 specimens of endometrium from cases in which carcinoma was suspected clinically carcinoma was found in twenty nine. In 2 3 the lesion was be Carcinoma was found in nine cases which appeared clinically to be benign whereas a definitely benign condition was found in three cases in which a clinical diagnosis of malignancy had been made Most of the cases in which carcinoma was errone ously suspected were those of undernourished nomen in the climacterium. So far as re examina tions were possible no patients whose condition was proved benign were found to have carcinoma later

In several cases in which the specimen showed carcinoma no malisnancy was found in the extir pated uterus. The authors therefore assume that all of the pathological tissue was removed by the curet When the findings of curettage are doubtful the preliminary test should be repeated before a

radical operation is done

The fact that a benign condition was found in a large number of cases in which malignancy was sus pected clinically proves that a radical operation should never be performed without a bionsy. Mever and Laufmann do not believe that biopsy favors the spread of carcinoma and they warn against the use of the theory of a precarcinomatous state as a susti fication for operation in doubtful cases. In very rare cases the excision of a specimen from the portio may entirely remove a very small carcinoma authors report such a case in which subsequent examination of serial sections proved the surround ing tissues to be entirely free from carcinoma

FLESCH (G)

Schmitz H Hueper W and Arnold L Significance of the flistological Malignancy Index for the Prognosis and Treatment of Carcinomata of the Cervix Uteri Im J Roent gruol 19 6 XXI 30

This article is a report of the combined efforts of pathologist and clinician working together for the purpo e of ascertaining whether a pathologist can include in his report information that will assist the clinician in the treatment of carcinomata and the determination of the prognosis

For purposes of the study carcinomata of the cer vix were classified into two large groups the primary or solid and the tubular or glandular carcinomata Each of these groups was then divided into four sub groups the histological and staining characteristics

of which are described in detail

The factors used for the determination of the histological malignancy were the special cell type of malignancy arregularities in the size and shape of the cells distinctness in the outline of the cells the functional activity of the cells irregularities in the size and shape of the nuclei of the cells the staining quality of the nuclei and the number of mitoses and prophases Numerical values were attached to per centage variations within each factor and the sum total designated as the histological malignancy in The average indices for the various types of carcinoma occurring in the 135 cases studied by this

method are tabulated

For the study of the significance of the malignancy index as regards the clinical course of carcinoma of the cervix the cases of sixty one of the 135 patients were used. These patients had either survived a three year period and were anatomically well or had succumbed to the disease The cases were graded according to the extent of the disease indicated by a physical examination and the end result of treat The clinical malignancy of the cases was graded according to the results of treatment Vari ous tables are included showing the relation of (1) the clinical grouping to the cell type the malignancy index and the chinical result (2) the cell type to the malignancy index and the clinical result and (3) the malianancy index to the clinical result

The following summary and conclusions are an pended

The cell types the differentiation and the ana plastic changes of carcinomata of the cervix have been studied. They were given a numerical value the sum representing the histological malignancy

2 Immaturity of the cells a low degree of differ entiation and a high degree of anaplastic changes are invariably associated with a high malignancy ındex

3 The greater the maturity of the cells the higher the differentiation and the less the anaplastic change the lower the malignancy index

4 The clinical malignancy of a carcinoma depends solely on the results of treatment provided the same method of treatment is used in every case. The extent of the carcinoma influences the outcome only if it has thereby become a systemic or generalized disease A carcinoma contained within a well defined area and baving a low malignancy index offers a relatively good prognosis

5 Comparing the histological malignancy index with the clinical findings or grouping of the carcino mata and excepting cases with systemic or general ized disease it is found that a definite relation

between the two does not exist

6 The relation of the cell type to the histological malignancy index is definite. The unripe cell type is almost always associated with a high malignancy ındex

The relation of cell type to the clinical result is not as definite as the relation of the malignancy index to the clinical result. The malignancy index shows a definite or proportionate relation to the re sults of treatment

8 Considering the relation of the malignancy in dex to the chuical result and excluding the group of cases with systemic or generalized disease the con clusion is reached that from a histological examina tion the pathologist can give definite information as to the degree of malignancy expressed in numbers of the malignancy index, which will enable the clini

cin to choose those cases of carcinoma which may respond with fair prospects to radiation treatment Abouth Hartung M D

Phillipp, E., and Gornick, P. The Treatment of Cancer of the Uterus and Vagina at the University Gynecological Clinic, Berlin (Die Behandlung des Gebaermutter und Schendenkrebses an der Universitäts I rutenklinik Berlin) - Munchen med II chnisch 29 6, lytin 27

In this report the authors bring up to date the carcinoma statistics of the University Gynecological Clinic of Berlin which were presented before the Gynecological Congress at Berlin in 19-0. They review the end results of operative and irradiation

therapy in the period from 1913 to 1920

In all r,104 cases of carcinoma of fundus and cerva of the uterus and vagin have heen treated Two hundred and thirty five (21 3 per cent) of the patients were still alive five years later B, far the greater majority were treated with the roomtgen raw or radium Only 206 were operated upon The Wertheim operation was performed Of 201 women subjected to operation (excluding six who were treated previously with radium), eighty two (40 70 per cent) were free from recurrence after five years Alarge percentage of these patients were given post operative prophylactic recurrent religious and the support of the proper of the support of the

The primary mortality after the Wertherm radical operation was 14.22 per cent. In recent years the operative mortality has decreased. The favorable and results of operation the author attributes to the fact that as a rule only the favorable cases are operated upon while those in which the condition be advanced are given irradiation theraps.

Of 805 cases of cervical carcinoma which were treated by irradiation, 180 were operable, 399 in operable and 2-6 borderline cases. Of the 15-27 per cent which were cured 88-33 per cent were operable and 5-6 per cent inoperable. In the year 1516 in which only two patients were operated up on, the incidence of cure in the operable cases treated by irradiation rose to 48 per cent.

Cases of carcinoma of the fundus were treated only by irradiation (at least only cases so treated are mentioned) Of forty which were treated with radium, eighteen (45 per cent) were cured These

were cases of operable carcinoma

Carcinoma of the vagina has an unfavorable prognoss Of fifty three patients with this condition who were treated with radium, only seven (rg 2 percent) were living after five year. Of the fifty three cases, only ten were operable. The authors are of the opinion that the results of treatment of carcinoma of the vagina cannot be greatly improved but that the incidence of cure in carcinoma of the corpus may be increased by operative treatment.

For the cure of carcinoma of the cervit they re gard operation as the most certain method, but their suggest that possibly when the technique of radium treatment has been further improved, it may give similar good results.

Bégouin Two Deaths Following the Intra Uterine Application of Radium (Deux cas de mort a la suite d'application de radium intra utérin) Bull Soc d'obst et de gjule de Par, 1926 v. 137

In 137 cases of cancer of the uterus in which the author used radium a febrile peritoneal reaction which resolved favorably after a month occurred in one and death from peritoritis resulted in two

One of the patients who died was a woman 68 years of age who had an endocervical epithelioma As Bigouin believed that hysterectomy would he dangerous in this case, he applied in tandem, two tubes of 13 mgm of radaum each filtered by 05 mm of plathium and 2 mm of gold and covered hy a rubber tube

The application was made on November 24 1025 without any incident, and the radium removed November 28 As the number of millicuries was then believed to be insufficient, the radium was removed for four days longer. On the following day the patient's temperature was between 364 and 375 degrees C, and after eight day's it rose to 364 degrees C. Two days later, abdominal pain and timprintes developed, the general condition became poor and the bases of the lungs were congested Death occurred fifteen days after the application of the radium.

At autopsy, the perstoneal cavity was found filled with pus up to the draphragm and a large triangular perforation was discovered in the posterior wall of the uterus. In the body of the uterus there was a fibroma about the size of a hen's egg.

In the other fatal case reported, autopsy did not reveal a uterine perforation. The author therefore concludes that the infection spread through the himphatic channels. Satisface of Pulls M.D.

Bowing H H Carcinoma of the Cervix and Fundus Uteri Treated by Combinations of Surgery Radium, and Roentgen Ray Radiology 1926

In all cases of irregular menstrual hleeding or agand descharge regardless of its character and the age of the patient, great effort should be made to arrive at an early diagnosis. All women should he instructed concerning the gravity of the apparently insignificunt signs usually associated with early may understand the importance of bein, examined as soon as possible following their onset. The most efficient method of combating neoplastic disease of the cervix and fundus utern is the use of surgery, radium, and the roentgen rays in various combinations. This treatment demands close co operation between the first examining physicia the surgeon, the pathologist and the radiotherapist.

Lahes F H Removal of the Cervix in Hysterec toms for Benign Lesions Surg Clin A 4m 1926 vi 593

Labey describes a method of removing the major portion of the cervix in hysterectomy for benign diseases by transcervical excision without danger to the uterus without shortening the vagina and without adding to the time necessary for the usual supracervical hysterectomy. He has performed the operation eighty six times since he first described it and believes it has practically all of the advan tages of a complete hysterectomy with none of the

disadvantages of the latter After the uterine appendage have been tied off and cut and the uterine arteries on either side of the cervix have been clamped with Ochsner clamps and cut the uteru remains attached only by the cervix An incision is made in the anterior surface of the cervix and grasped with double books and a similar incision made in the posterior surface and likewise grasped with double hooks. This inci ion is made only to a depth of about 18 in and completely en circles the cervix

By exerting traction on the uterus and continuing the inci ion downward keeping it always only about 1/2 in from the outer wall of the cervix the cervix is gradually pulled upward and dissected from its shell just as the finger of a tight glove is everted by the extraction of the finger from it The entire cer viv is finally extracted a gauze strip is pushed through the shell of the cervix into the vagina and the tumps of the broad and round ligaments are autured into the cavity left by the removal of the cervix. The only disadvantage in the technique is the oozing which may now occur but this can be controlled by placing a mattress suture through the shell of the cervix

By the removal of the cervical stump the danger of malignancy is les ened and endocervicitis is prevented HARR W FINE M D

## ADNEXAL AND DERIUTERINE CONDITIONS

Pratt J P and Allen E Chelcal Tests of the Ovarian Follicular Hormone with a Note on Experimental Work on Monkeys J 1m W 1926 144411 1964

From experiments on monkeys and earlier experiments on lower mammals with regard to the ovarian follicular hormone the authors draw the following The ovarian fellicular hormone starts the

periodic growth processes in the female genital tract In case ovulation occurs the corpus luteum in woman and perhaps also in other primates may con tinue this anabolic endocrine influence which prob ably decreases as the next menses approach

3 Menstruation seems to be due partly to the temporary absence of this secretion after it has been

acting for a certain time

- Since ovulation followed by corpus luteum formation often doe not occur a specific secretion of the corpus luter m is not a necessary causal factor in the menstrual cycle. That the corpus luteum may have a regulatory influence is not questioned
- 5 The substan e or a very similar one is probably ecreted by or stored in the placenta. Its contin-

nous availability throughout the gestation period would account for the absence of menstruation dur ing pregnancy

Live series of injections of the ovarian follicular bormone in women with an artificial menopause have been made by the authors. All of these patients were in the third decade of life | The interval between the removal of the ovaries and the injection ranged from two months to two years. In each case exami nation of the patient before the injection showed the atrophs or involution of the uters which follows loss of the ovaries The dosage used ranged from o 5 to 3 rat units morning and evening daily for two or three weeks The results were fairly uniform

A few days after the injections were begun an increase in the size of the uterus was noted. This growth continued for several days. During the lat ter days of the injection period the rapidity of the growth was less noticeable. As soon as the injections were stopped the uterus diminished in size returning in a few days to the size noted before the injections nere begun At the height of its growth some change of color and a definite increase in the circu lation of the cervix were noted. On two occasions after the injections were stopped a very small streak of blood appeared

The patients also noted the increase in the size of the uterus and mentioned the feeling of pressure and heaviness in the pelvis which they had formerly experienced especially at the time of menstruction Many other subjective symptoms were noted but

these must be greatly discounted on account of the

nationts desire to have them reproduced The outstanding features associated with the natural menopause are the hot flashes and nervous ness. Since these are subjective symptoms, they do not constitute especially good criteria of the effects of the follicular hormone However all of the patients treated for them reported imp ovement

In cases of scanty menstruation six series of in sections were made. The patients chosen were in the second or third decade of life. In all of them menstruation had been irregular either in interval or in amount since its onset. One of these cases was of unusual interest in that two years previous to the study the patient had been given thyroid extract by mouth with a resulting increase in the frequency of menstruction but not in the amount

In experiments on immature animals one of the

striking results was the hastening of sexual maturity the cestrous cycle being established much earlier than in the controls CARL H DAVIS M D

#### MISCELLANEOUS

kauffmann E Cancer Statistics Before During and Since the War (Krebsstatistische Unter u chungen mit be onderer Beruecksichtigung der Zeit vor wachrend und nach dem Krieg) Zentralbl f Gynack 1926 1 199

This article is an interesting contribution on the question as to the importance of general living con

ditions in the causation and pathogenesis of cancer of the female genitalia

In a study of about 2 000 cases of carcinoma of the gential organs (ulcrus, vulta vagina, and oxanes) it was found that before the war the includence of such cancers was highest between the ages of 50 and 55 years, while during the war it was highest between the ages of 46 and 50 years and since the war it has been highest between the ages of 47 and 45 years. The change in the incidence during the third decade from 4 per cent before the war to 39 per cent during the war and 5 per cent since the war is not regarded by the author as of much significance as it comes within the limits of error. The same conclusion is drawn with regard to the slight increase in carcinoma between the ages of 56 and 70 years.

With regard to carcinoma of the cervit it was found that, since the war, there has been an increase in the incidence of the condition between the ages of zo and 35 years, while between the ages of 5 years there has been a decrease from 18 per cent be fore the war to 11 3 per cent since the war. On the whole, however, there has been no noteworthy change in the age incidence. The findings with regard to carcinoma of the fundus were similar.

Cancers of the vulva and vagina seem to show a higher incidence in older women, but this may be

due to the increase in cancers in general

Cancers of the ovary, which have become less fre quent since before the war, show a shifting of the highest age incidence similar to that of cancer of

the uterus

With regard to the relationship between pregnancy and the incidence of cancer the author states
that no definite relationship between carcinoma of
the cervix and the number of children can he established Numerous births do not favor the appear
ance of cancer It is possible, however, that in the
case of a woman with a predisposition to malgnancy,
the trauma of one or more labors might stimulate
the development of cancer A higher incidence of
cancer in nulliparæ and women who had borne few

children as compared with those who had had

numerous children may be ascribed to differences in hving conditions Carcinoma of the body of the uterus was most frequent in nulliparæ and women who had borne few children

From the standpoint of the social status it was found that cancer is three times as common among the poor as among the rich. Under the unfavorable nutritional conditions which prevailed during the war the incidence of cancer increased among the poor but decrea ed among the rich. Since the war, the incidence in both groups has returned to the pre war level.

In general, cancer is twice as common in large cities as in small towns and rural districts

With regard to the inheritability of cancer the author states that a predisposition to the condition may be inherited. Among the cases reviewed there were numerous cancer families.

In general, the investigation reported seems to indicate that social and cultural factors play a role in the occurrence of cancer Graff (C)

Reeb Rectal Lesions Following Gynecological Laprotomies (Lesions du rectum au cours des laparotomies gynecologiques) Bull Soc d'obst et de gynec d'Par 1926 vi 154

Reeb reports five cases of rectal lesions due to injury of the rectum in a gnecological operation. In three cases the laparotomy was performed for puerperal adnesses to increase for intralgamentous fibromyoma and in one case for intralgamentous fibromyoma and in one for an infected tubal pregnancy. In one, the surgeon assistant, instead of introducing a vaginal drain into the cuil de sac in troduced it through the rectum and the surgeon opened the rectum in cutting for the drain. Recovery resulted in all of the cases except the last one men touned.

Of the three cases in which the rectum was sutured primary union resulted in only one. In the two others, a fistula developed on the seventh or eighth day but closed spontaneously between the thirteenth and twenty fifth days. The non sutured lesion closed on the tenth day.

SALVATORE DI PALMA M D

## OBSTETRICS

### PREGNANCY AND ITS COMPLICATIONS

Lundh G The Problem of Age and Primiparity leta obst et gynec Scand 1926 iv Supp

I rom a study of more than 7 000 primiparae be tween the ages of 13 and 47 years who were seen at the Women's Clinic of the University of Lund in the period from 1900 to 1922, the author draws the following conclusions

There seems to be a direct relation between the time of the first menstruction and the occurrence of the first prognancy the later the first flow the later the first pregnancy. However on account of the unreliability of the nationt's statements with regard to the onset of menstruation not much im portance can be attributed to this finding

Of the morbid conditions occurring during gestation only the towerias directly related to preg nanes -- hyperemesi albuminuria and celampsiashow an increase in the oldest and the youngest primiparæ In the oldest women they show a moder ate increase and in the very voungest only a very

shight increase

3 The frequency of premature labor is highest among the youngest primiparæ

4 The optimum duration of labor is reached at about the twenty second year. Therefore from this point of view the best time for a first labor is be tween the nineteenth and twenty sixth years. After the twenty fifth year the duration of labor lengthens progressively in complicated cases its prolongation is particularly increased. Labor is prolonged also in the very youngest primipare but in these the rise scems less dependent upon complications

5 Sure evidence as to the cause or causes of the proved prolongation of labor with age is difficult to obtain from a statistical investigation from the case records a number of complications more or less unfavorable to the course of laborcontracted pelvis anomalous presentation of the fetus and premature rupture of the membraneesmay certainly be considered as more common in old primipare but these cannot be regarded as the actual cause of the prolongation The principal cause is probably disuse atrophy resulting in inade

quacy of the labor pains and rigidity of the soft parts 6 Among the other complications of labor eclampsia shows a definite increase in old primip are and to some extent also in the youngest

7 The frequency of all types of operative inter ference and also of perincal ruptures shows a marked rise with advancing age and is lowest in the very youngest primiparæ

There is a prolongation of the placental stage in old primiparæ and also in the youngest hut in the latter it is slight. The number of interventions in this stage of labor shows a considerable increase with ace

o Age does not seem to exercise any influence upon the weight length head dimensions or sex of the child The frequency of twins rises with the age of the mother

10 Infantile morbidity and mortality show a

marked increase with the age of the mother

- ir The maternal morbidity in the puerperium shows no definite influence from age. As regards the mortality a certain influence from age cannot be excluded especially because of deaths from eclamp
- 12 The proved increase with age in the risks encountered by primipara appears to be mani fested especially in women who are married for quite a long while before they become pregnant

# Andérodies and Baierd The Obstetrical History of a Patient Who Had Seven Pregnancies After a Cres treau Section (Histoire of stetricale d'unc

femme ayant eu sept grossesses apres une opération césarienne) Buil Soc d'obst et d' ganée de l'ar 10 6 11 50 The authors report the ease of a rachitic woman

with a deformed pelvis who was delivered by cm sarean section at the age of 20 years. The patient s second pregnancy terminated in abortion in the sixth month. In her third pregnancy a living child weighing 2 9 kilos and presenting by the breech was extracted by the Champetier method after the patient had been in labor for eight hours. The fourth pregnancy ended in abortion in the third month and the fifth ended in abortion in the sixth week. The sixth terminated in the spontaneous delivery of a living child at term. The child died from meningitis at the age of 15 months. The seventh pregnancy terminated in the premature delivery of a living child in the eighth month. The child died from debility a month later. In the eighth preg-nancy, the fetal head, which was high above the pelvie brim and to the left fulled to become engaged after full dilatation of the cervix and as several trials with forceps were unsuccessful and the fetal heart could not be heard the head was perforated with a basiotribe A child weighing 3 of kilo without the brun was extracted SALI STORE DI PALMA M D

Girlpuy Lassalte and Sendralt The Lirettepatton of the Fetus and the Thyrold in the Elcyation of the Basal Metabotism During Pregnancy (La participation fetale et thyroidienne dans l'elévation du metabolisme basal pendani la grossesse) Ginée et obst 1026 xin 173

The authors discuss the question as to the cause of the constant and marked elevation of the basal metabolism which is observed during pregnancy. Toward the thirty eighth week of pregnancy the metabolism is 35 per cent above the normal and after delivery it falls rapidly to 15 per cent on the third day and to normal on the seventh day.

The manifest activity of the thyroid pland which is often noted during pregnancy suggests the plausi ble theory, accepted by a number of obstetricians, that the increased basal metabolism is the result of a physiological hyperthyroidism. However this theory does not explain the fact that the basal metabolism is further increased by a twin pregnancy and that after delivery or the death of the fetus in the uterus the metabolism rapidly returns to normal

The authors believe that the fetus influences the metabolism directly, without the intervention of the thyroid, otherwise the effect of delivery or the death of the fetus would be less prompt. Of sixteen patients studied by the authors, only one showed symptoms of hyperthyroidism as determined by the physical examination the metabolic rite the oculo cardiac reflex, and the Goetsch and Claude Ports. ALDERT F DE GROAT M D

# Talbot J E Tox emias of Pregnancy Udantic

The author believes that toxemias of pregnance are always associated with foci of chronic infection from which the infection is borne by the blood to other organs including the placental site where it produces infarction. In support of his theory be cites the fact that bacterizemia pyzemia and retro placental abscesses are frequently associated with toxemias. He advises against treatment of chronic foci in the presence of a toxemia.

ALBERT W HOLMAN M D

Polak J O The Present Status of the Toxemias of Pregnancy J Am V Ass 10 6 lyvvin 2 6 Greenhill J P Eclampsia at the Chicago Lying In Hospital Immediate and Late Results J

1m M Ass 10 6 IVVVII 228
Davis A B and Harrar J A Toxæmia of Preg
nancy 879 Cases with Convulsions at the New
York Lying In Hospital J Am M Ass 19 6

Itaxiii 233 McNeile L G and Vruwink, J Magnesium Sul phate Intravenously in the Care and Treat ment of Pre Eclampsia and Eclampsia J Am V 1ss 1926 Ivravii 236

Polak discusses hyperemests, the pre eclamptic toxemias and eclampsia. He states that at present all clinical evidence tends to substantiate the theory that hyperemests is due to a vicious cycle beginning with a carbon drate deficiency, and that the pathological changes found in the liver, kidneys and blood are the result of star ation and dehydration. Other causes are a neurogenic factor and intestinal in toxication. The carbohy drate deficiency is due to the unexpected demands for glycogen of the fetus and growing uterus and a deficiency due to the nauses and vomiting and consequent lessened in

take Continued vomiting decreases the unnary output, increases the concentration of the body fluids, and results in the development of general toxic symptoms. That the injury to the kidney is not great is shown by the rapid disappearance of the albumin from the unne after recovery, when the uterus is emptied, or when divires is produced.

Pre eclamptic toxamia is the result of a dysfunction and improper correlation of the eliminative sys

tem and endocrine control

GREENHILL has analyzed eighty three cases of eclampsia which occurred in 99 587 obstetrical cases admitted to the Chicago Lying In Hospital in the period from July 1, 1917 to January 1 1076

DAVIS and HARRAR report upon 879 cases of tox semia occurring in 152,248 obstetrical cases admitted

to the New York Lying In Hospital

McNeille and Vruwink discuss the use of mag nesium sulphate in the treatment of 142 cases of

pre eclamptic and eclamptic toxemias

Polat, Davis and Harrar, McNeile and Vruvink, agree in general that the treatment should include the administration of morphine rest in bed the forming of fluids, a low protein salt free diet and the intravenous administration of magnesium sulphate. Polak gives 100 ccm of a 25 per cent solution of magnesium sulphate. McNeile and Vruvink, give 20 ccm of a 10 per cent solution, and Davis and Harrar 4 ccm of a 50 per cent solution, repeating if necessary. In cases with any manifestation of toximia Polak combines the forcing of carbo hydrates with the administration of insulin by mouth or intravenously.

Greenbill favors emptying the uterus in most cases. In the cases of primiparm with a viable infant and an undilated cervix he performs cesarean sec

tion under local anæsthesia

McNeile also advocates section in the cases of primipare if there are no results from the conservative treatment

Davis recommends section only for cases in which there is no improvement under conservative treat ment

Polak advises against section unless there is an obstetrical indication ALBERT W. HOLMAN M.D.

Stroggnoff B The Improved Prophylactic Method of Treating Eclampsia with Comments on the Variations Suggested by Williams Stander Speidel and King 1m J Obst & Gync 1926 21, 736

The improved prophylactic method which for twenty eight years has been giving the best results in the prevention of celampsia is used at the present time without modification by very few obsettricians. Notwithstanding the fact that many thousands of cases have been treated successfully by this method and its variations, the incredulous attitude of many physicians toward it has not been changed

Stroganoff attributes the failure of others to obtain as favorable results with this method to imperfect technique. He believes they have not used the

drugs in the proper combinations or for the proper periods of time and that their patients have not received the requisite nursing

On the basis of 300 cases of eclampsia treated by the improved prophylactic method and 328 earlier cases treated by a less perfect form of the prophylactic method. Stroganofi has reached the conclusion that an almost absolutely favorable prognosis can be given for the mothers in cases that are not neglected.

The mortality of eclampsia and albuminuma in relation to delivery is next to if not equal to that of sepsis. The author has tried to set up a standard of possible attainment from the use of the improved prophylactic method. He asserts that its variations have the effect merely of decreasing its value.

On the basis of theoretical analysis as well as a consideration of the facts it appears that vanations of the conservative tractiment of eclampsia can scarcely give better results than the improved prophaletic method which can be applied to patients at home as well as to those in lying in hospitals

E. L. Convell, M.D.

Netzer F The Treatment of Placenta Prævia (Zur Therapie der Placenta praevia) Denische med || chuschr 1925 | li 1993

The author reports the results of the treatment of placenta praws as at the University Gynecological Clinic at Jena during the period from 100 to 1925 inclusive. Of the 5754 births occurring during this period 120 (200 per cent) were complicated by placenta pravia. In thirty six (30 per cent) the placenta pravia was of the central type in forty nine (44 per cent) of the marginal type in the control of the marginal type.

Because of the hæmorrhage only a relatively small number (20 per cent) of the patients reached term. One fourth reached the last quarter of preg nancy hut the rest were delivered before the eight month. There were eight maternal deaths six due to hæmorrhage one to peritonitis and one to embolism. The maternal mortality was therefore 6.66 per cent. Seven of the deaths occurred during the time (10:18) when the older methods of delivery, were used. In the last fifty four cases in which the individual method of treatment was employed there was only one maternal death.

The sixty one mothers who were delivered up to the year 1918 according to the older method by the vaginal route gave birth to sixty two children. Of the thirty eight living infants twenty five died during delivery. Of the fourteen which were not viable ten died before the mother entered the clime.

Since 1010 the individual method of delivers has been used. Of the fifts four children born since that time twenty nine were born alive but of these four died during delivery. Twenty two were not viable (twenty weighed less than 1 500 gm and 2 less than 000 gm) and three died in were

In the puerperium spontaneous expulsion of the placenta occurred in 27 8 per cent of the cases the

Crede method was necessary in 52 per cent and manual extraction of the adherent placenta was done in 202 per cent. In eleven cases (67 per cent) clamping of the parametrial tissues was necessitated by atony and in seven cases (59 per cent) by tears of the cervix

Conra (Conra (Conr

Wagner 11 The Cases of Placenta Prævia at the Lyng in Ilospital in Karlsruhe During the Vears 1893 to 1923 (Die Placenta praevia Faelle des Woechnernmenheums Karlsruhe in den Jahren 1893-1912) Züchr f Gebutish u Gynack 1926 levut 600

Among 19 207 deliveries at the Karlstube Lying In Hospital in the thirty year period from 1803 to 1923 there were 172 cases of placenta previa The multipare with placenta previa very considerably outlumbered the primipare with the condition. In these cases there were sevently two full term children the fetal mortiality was 52 o per cent the maternal mortiality 8 i per cent and the maternal morbidity 22 per cent. Three hundred and twenty four cases showed a fairly normal course.

In the early years packing was done forty eight times with a generally satisfactory result but the danger of infection was very great in these cases as compared with those in which packing was not done Later up to the year 1905 combined version was the most important part of the treatment. In thirty-one of seventy-one cases further expulsion with extension traction after the version was left to the natural powers and in forty an earlier or later extraction was added. The latter method gave a better result for both the child and the mother but was associated with a somewhat higher puerperal morbidity.

The metreurysis so warmly recommended by the Austiner school and practiced after 1909, was dis appointing as in thirty-eight cases in which it was followed by version and extraction there were six fatalities from hemorrhage and although the per centage of children born allow was slightly higher than in other cases the puerperal morbidity was 10 per cent higher.

The introduction of casarean section first of the classical type and later of the transperitoneal type resulted in marked improvement. In the cases so treated there was no maternal mortality, the purperal period was febrile in only 8 3 per cent and the child was born alive in 83 3 per cent.

CORDUA (G)

keller The Treatment of Cystic Tumors of the Ovary During Pregnancy and at the Time of Delivery (Traitement des tumeurs kystiques de lovaire pendant la grossesse et lor de l'accouche ment) Bull Soc d'obst et de gynec de Par 1926 xv 141

Practically all obstetricians recommend the re moval of an ovarian cyst during pregnancy. According to Williams torsion of ovarian cysts occurs three times as often during pregnancy as during the nonpregnant state, and to avoid this complication the ablation of the cyst is indicated

At the time of delivery an overian cyst which does not ascend with the uterus may obstruct the passage of the fetus. After delivery infection of the cyst contents may cause serious complications.

The author reports three cases of ovarian cyst associated with pregnancy. The first was that of a primipara 33 years of age who was seen for the first time in the fifth month of pregnancy. Examination revealed a large cystic tumor which completely filled the posterior cul de sac. The cervit was small and pushed behind the symphysis by the mass. The fetal heart was not heard, but fetal movements were felt. A diagnosis of ovarian cyst or fibromyoma was made.

As the patient inested that the life of the child should not be endangered intervention was post poned Subsequently a positive diagnosis of ovarian cyst fixed in the posterior cul de sac was made. One hour after the rupture of the membranes in the mith month, casarean section was done and after the uterus had contracted the ovarian cist was removed. The cyst measured 30 by 20 cm. On the right side an ovarian dermoid cyst the size of a lemon was found. A resection of the right ovary was therefore done. The patient made an uneventful recovery.

The second case reported was that of a primipara 24 years of age who came to the hospital because of an incomplete abortion at the end of the second month of pregnancy A curettage was performed and a cyst of the left ovary was found. The patient was later re admitted to the hospital in the second month of pregnancy The ovarian cyst was then about the size of an orange Operation was advised but refused In the ninth month of her pregnancy the patient was again admitted to the bospital The cyst then completely filled the pouch of Douglas pushing the cervix behind the symphysis As con ditions did not seem favorable for intervention the patient was allowed to go into labor with the hope that the utenne contractions would push the cyst up into the abdominal cavity Labor pains began and then stopped Two days later, labor began again, and on vaginal examination the cyst could not be felt Delivery resulted normally On the tenth day another examination failed to reveal the cyst, this proving that it had been ruptured by the uterine contractions and its contents absorbed

The third case was that of a primipara who had noticed a gradual enlargement in the size of her ab domen for a year No other signs or sy mptoms were present. When the patient came to the climic to determine the stage of her pregnancy she stated that her last menstruation had occurred five months previously On examination, the abdomen was found very much distended by intra abdominal fluid. At first it was impossible to ascertain definitely whether or not the fluid was free in the abdominal cavity However, a diagnosis of large ovarian cyst was made. The cyst was punctured through a small in

cision made below the umbilicus, 11½ liters of clear fluid were evacuated, and the rest of the cyst, which belonged to the left ovary, was ablated The pregnancy continued to term

SALISTORE DE PALMA M D

Gyet Extra Uterine Pregnancy Elimination of the Fetus Into the Bladder and Then by Way of the Urethra Right Pyonephrosis Nephros tomy Ureterolysis (Grossesse extra uterine elim mation du foctus dains la vesse puis par luretre pyonephrose droite nephrostomie ureterolyse) J durol mild et chir 1265 vo. 436

The patient whose case is reported was a woman 25 years old who had had two normal pregnancies the last one four years previously. For two years she had had attacks of abdomial pain followed by the passage of gravel in the urine. In April she had bematuria for three days. In June she had an at tack of acute pain localized in the right flank and associated with vomiting vertigo, and syncope Menstruation bad not occurred since April.

A diagnosis of extra uterine pregnancy was made. but on account of enlargement of the right kidney and pyuria the possibility of a pyelonephritis of pregnancy was considered. The urine cleared up quickly under treatment with urotropine, but about two weeks later the pain in the right lumbar and iline fossæ returned and there was daily hæmaturia with the expulsion of debris. The urine was found to contain blood and colon bacilli On the following night there was an attack of acute pain with loss of the ability to urinate and the sensation of an obstruction in the urethra Soon afterward the nurse withdrew from the urethra a protruding structure which appeared to be a four months' fetus tortunately this was thrown away before further examinations could be made. Its expulsion was followed for several days by hæmaturia and metror rhagia The latter was relieved by digital curettage The uterine cavity was small and contained no re tained placenta

In detoher the patient had another attack of pain oligura pyura and fever with enlargement of the night kidney. Vaginal examination revealed a soft rounded miss in front of the uterus. On exist copic examination a papillomatous mass was found on the upper wall of the bladder. In the center of this mass there was a dark area into which a ureteral sound could be passed for a distance of 3 cm. The mass was believed to be a placenta which had entered the bladder during the course of a tubal pregnancy and the dark area the communication between the bladder and the tube.

A shaggy clothke mass which was later passed from the urethra was examined histologically and found to conest of fibrin necrotic cells, and in one place rounded structures which appeared to be necrotic placental vill. Exploration of the right ureter two months later for a suspected ureteral stone, revealed evidences of a severe pelve inflammation and adjacent to the bladder and adherent

to the ureter a mass which was identified as the right overy and the remains of the right tube

The author gives a brief review of the literature Unlike his case most of the cases of vesical delivery which have been recorded were cases of long standing encysted extra uterine pregnancy

LAWRENCE JACQUES M D

Meyer C Extra Uterine Pregnancy Perforating the Urinary Bladder (Grossesse extra utenne perforte dans la vessie) Bull Soc d obst et de ginéc de Par 1926 xv 145

A woman 30 years of age consulted the author for the relief of vague pains in the lower abdomen Menstruation had always been normal in most re spects but occurred sometimes before and some times later than expected. The last menstruation had been two day late but otherwise was practically normal

Vaginal examination revealed slight tenderness and contraction of the fornices due to old adhesions. The cul de sac was free Vaginal douches were prescribed.

Twenty four hours later vomiting hegan and the abdomen became distended. The abdomen was only slightly tender however and nothing definite could be felt on palpation. There was no vaginal bleeding and no collarse.

Two days later the abdomen was soft the vomit ing had ceased and the temperature was normal. The general condition then seemed to be excellent but the patient; complained of fenemus and burning on unnation. On vaginal examination a small tender tumor was then felt in the left cut de sac. A diagnosis of py osalpinx and pelvie peritonitis was made.

Suddenly large quantities of blood were expelled through the ureth a and cystoscopic examination revealed a tear in the left fundus of the bladder Catheterization of the ureters yielded normal arine

Laparotomy revealed an intraligamentous extration of the left side which had perforated into the bladder. A subtoal hysterectomy with removal of the left aduexa was done and ahdominal drainage established. A slight amount of blood was found in the urine for two days. Convalessence was uneventful.

The author attributes the abnormal implantation of the origin and the perforation of the bladder to disease of the adners causing the tube to become adherent to the bladder with a portion of the broad legament Salatators I Plansa M D

Novak E Combined Intra Uterine and Extra Uterine Pregnancy with a Report of 276 Cases Including Two New Cases Observed by the Author Surg Gynes & Obst. 1926 Alm 6

Noval, has collected thirty four cases of cocusting intra uterine and extra uterine pregnancies which have been reported since Neugebauer's second paper in 1913. These and two cases of his own bring the total number to date up to 2,6 The cases are grouped into those with a history suggesting ectopic pregnancy and those in which the signs of the intra uterine pregnancy dominate the chincal picture. In Neugaburer sirst series of 1,0 cases the diagnosis was made before operation or debres; in only 4 per cent and in his second series of seventy four cases in only 10 per cent. If very definite uterine enlargement can be made out in a case which otherwise suggests ectopic pregnancy the possibility of the combined condition should be borne in mind especially if there is no external bleeding. In some case both prepancies have advanced to term and in nine of such cases both children were delivered alive the abdominal child by section and the intra uterine child usually by

the natural canal The treatment must be adapted to the indications of the individual case. As it is the rupture of the extra uterine pregnancy which is responsible for the symptoms in the larger number of cases and as this occurs almost always in the early months of preg nancy a laparotomy is performed even if the asso ciation of intra uterine pregnancy is not recognized In the occasional case abortion of the intra uterine pregnancy has already occurred but has not been recognized If continuous and free bleeding occurs and a unilateral mass is present at is well to perform a gentle curettage and make a microscopic examina tion of the curettings before resorting to laparotomy The finding of villi settles the diagnosis of a recent intra uterine pregnancy. The extra uterine preg nancy should then he managed along the usual surgical lines

The author gives a brief report of each of the thirty four cases described since 1913

ALBERT W. HOLMAN M.D.

# LABOR AND ITS COMPLICATIONS

kurtz 11 The Etiology of Lacerations of the Uterus with Regard to the Pathologico Ana tomical Conditions (Die Aetiologic der Uterus zerressungen unter Beruceknehingung der pathologisch anatomischen Verhaeltmise) Zischr f Gebutih in Gwaek 1025 12xxv 515

Kurtz discusses only spontaneous ruptures of the uterus Important factors in such runtures are mus cle defects due to abrasions other intra uterine pro cedures including those of a criminal nature injuries of the uterine wall in manual separation of the pla centa the Braxton Hicks maneuver etc congenital malformations of the uterus proliferation of the mucous membrane into the musculature patholog ical insertions of the ovum licatrix formation fol lowing section a poor general condition with decreased resistance of the uterine musculature and degenerative and inflammatory processes of the uterine wall. Often however the cause cannot be determined In conclusion the author calls attention to the cases of rupture which occur in conjunction with the use of pituitary preparations such as pitui CORDUA (G) trin

Niedermeyer The Defects and Dungers of Publot omy (Fehler und Gefahren bei der Lubiotomie) Zentralbl f Gynack 19 6 l 2 1

The author discusses the defects and dangers of pubotoms on the basis of two cases with numerous complications which he reports in detail. This procedure is associated with the danger of himmorrhags from the injury of hollow organs and from the sawed bone, of hematoma formation with its sequele, in fection suppuration, and possible thrombosis of unsatisfactory union of the pelvic fracture with pseudarthrosis of injuries of the birdder with in continence, of phlegmon of the space of Retzuis the previsical tissue, and of injuries of the soft tissues especially in primmpage.

These dangers, which he was unable to eliminate even with the use of a special instrument he devised to facilitate the operation, have led the author to change his opinion regriding pubnotomy. As the technique of cesarean section has been greatly improved, he now prefers this operation to any procedure for widening the pelvis. NYMORATIN (6)

### PUERPERIUM AND ITS COMPLICATIONS

Masieri N The Pathogenesis of the Puerper II
Psychoses (Contributo allo studio della patogenesi
delle psicosi puerperali) Riv ital di ginec 1926 ci

Of twenty four cases of puerperal psychosistudied by the author the condition occurred he tween the third and eighth months of pregnancy in five (20 8 per cent), during the first week of the puerperium in eleven (45 8 per cent), and between the fifth and eighth months of the nursing period in

eight (33 3 per cent)

In ten cases (41 6 per cent) the condition was of the amental type, in seven (29 2 per cent) of the manic depressive type and in one (4 2 per cent) of the hysterical type. Of those in which it developed during pregnancy two were of the phrino cpliquit type one of the phreno hysterical type, one of the phreno manic depressive type, and one of the phreno amental type. Of those in which the condition developed during the purpersion, seven were of the phreno amental type. Of those in which the condition developed during the purpersion, seven were of the phreno amental type, there of the demonstration type, and one of the recurrent phreno epitchic type. During the nursing period the phreno mine depressive type developed in six and the platino amented type in two.

The duration, course, and pro, moss of the vitous types differed considerably. The prognous is not favorable in the amental type. In this condition heredity does not seem to be a fettor. In most of the cases there was only one attack which lettel, out the average for from four months to a year. Occasionally, however, the duration of the attack was only a week, and occasionally the condition recurred in later years independently of the preciderate, with attacks having, the character use of n mode depressive psychosis. The author believes that he that they pool to a the first attack of the amental.

form was in reality the beginning of the manic depressive insanity

Of the ten patients with the amental type of psychosis, six were cured, one died during the first attack, and three had recurrences with attacks of the mains depressive form

Of the seven women with the manie depressive type of psychosis three were circular the time this report wis maile, not having had any attacks for several years and four had been in the insunraylum for several veries.

Of the three patients with demontin prices, two dad and one has been in the asylum for twelve years. The author believes that in this type of

psychosis the prognosis is invariably poor

Of the four patients with a psychosis of the hystero epileptic type, three are inside and one line recurrences of the condition

The author draws the following conclusions

I he psychoses which have their first manifestation during pregnancy constitute about a sixth of all

psychoses in the female

They occur more often during the puerperium,

less often during the nursing state, and still less fre quently iluring pregnancy

3. Of the psychoses which occur during pregnancy and the nursing period, those of the depressive form are most common. The maniacal forms occur usually during the piterperium.

4 In the pathogenesis of the purporal psychoses there are many factors. In the amendal forms, the schools or, the changes due to esh useful muston and toxic or infectious processes may be responsible. In the others there is a psychopathic heredity. In all of the forms the changes occurring in the hormonic interfluidular equilibrium during the gravid state, and face must are of importance.

5 A cure is obtained in about 60 per cent of the cases of the amental type, in 35 per cent of those of the mane depressive type, in none of those of dementia praces, and in 25 per cent of the cases of the legation cylicpie type.

SALVATORE DEPARTA, M.D.

Higgsgrinn, P. Heiss I ollowing Cats are in Section (Uther Brus nich Kaiserschnitt). Acts obst. et gynee Seand, 1926 ly, 286

In addition to five cases of his own of intestinal obstruction following exercian section, the author in collected that years from the literature. The most common cause of the complication is the formation of adherious between the uterns and other organs in the abdominal cavity.

The measures used in the diagno as should include aurunitation of the delomen, a white blood cell count, and News, examination. In the differential diagno is, early personalis must be considered.

the privention of alliestons after casarcan section regalies a good teclanque, strict asep is, and careful terms to be. The increase in the aterus should be an ale retrovedeally in the cervix and not in the cornus of duals.

The treatment of postoperative ileus should be begun as soon as po sible. High intestinal lavage should be tred first. If this fails to give the desired result a second laparotomy should be performed for the removal of the cause of the obstruction. Enterostomy, should be used in only exceptional cases.

The prognosis of ileus following casarean section is unfavorable the mortality being between 30 and 50 per cent but the author beheves it can be improved by earlier operation for the removal of the

cause of the obstruction

Schwarz O and Dieckmann W J Anaerobic Streptococci Their Rôle in Puerperal Infection South W J 1926 xix 470

The role of anserobic streptococci as a causative factor in puerperal infection has received httle consideration by English and American obstetri cans. The author believe that many postpartum infections with negative cultures but with obvious chinical infections would be found positive if cultures were made for anierobic organisms.

In 1905 Little reported a case of serious puerperal infection, due to anaerobic streptococci which was

seen on the service of Williams

Schottmuller in 1910 reported twenty five cases of infection with an anaerobic streptococcus in which the mortality was 50 per cent. Most of these were puerperal infections following abortion. In this

group the mortality was 41 per cent. In purepreal thrombophlebits due to anaerobic streptococci the mortality was 78 per cent. Schottmuller objects to the view that these bacteria are para itseinvaiding the body after disease. He regards them as virulent pathogene organisms because when once they have invaded the tissues the thrombi or blood stream they have pathological properties. Because of the foul smelling lochia due to its presence in purepreal sepsis Schottmuller named the organism which he isolated in his series of cases the streptococcus putneds.

In a monograph published in 1923 Schottmuller cited 231 fatal puerperal cases following labor in which the streptococcus putridus was found seventy

two times

Of 165 uterine cultures and blood cultures made by the authors in suspected infected ca es seen since July 1924 sixty seven were positive for an anaerobic streptococcus

This organism like those of other puerperal infections has the power of destroying red blood cells and lowering the harmoglobin content of the blood. Blood transfusion by the citrate method was advised. From goe to 800 ccm of blood was given at intervals of from three to seven days Forced feedings with the nasal tube if necessary and thorough durennecleaning are necessary adjuncts.

CHARLES I DUBOIS M D

# GENITO-URINARY SURGERY

### ADRENAL, KIDNEY, AND URETER

Iwanitzkij, M. F. The Anatomy of the Renal Pel vis (Zur Anatomie des Nierenbeckens) Verhandl d 16 russ Chir. Kong, Moscow 1924, p. 658

The author studied the form of the renal pelvis by the corrosion method in eighty five cadavers. Three types were found (1) a wide, plump pelvis without major calices, (2) the so called 'absent pelvis in which the major calices, becoming confluent, go directly over into the ureter, and (3) the normal pelvis with major and minor calices.

The last form is typical for the human being According to the classification of Schewkunenkos it is the complete type It is found in 70 per cent of human hodies and is associated with a moderately wide inferior thoracic aperture. In cases of extremely wide inferior thoracic aperture, the first type men toned is found. This is to be regarded as the embryonic type. In cases of narrow aperture, the second type is found. This form is characteristic of certain mammals such as the sea hon and the bear In man the first and second forms are to he regarded as incomplete types or as atavistic remnants which in time will disappear.

Cross W W The Fluoroscope as an Aid to Making Pyelograms J Urol 19 6 vs 37

The author has used the fluoroscope in making pyelograms in about 200 cases. Under fluoroscopic control there is less danger of overdistending the kidney pelvis, the mobility of the kidney is easily ascertained, the change from normal action is observed, and stones that are not suspected can he seen by turning the patient as the filling progres es. Training in \(^{\text{Tayler}}\) ray work is essential for this type of examination.

I am during pyelography may be due to the post ton of the catheter if the tip of the catheter is in a cally, pain may be produced by even a small amount of fluid. It can be relieved by pulling the catheter down into the pelvis. When the catheter is below the kidney polvis pain is more apt to result than when it is ingiger up in the pelvis. As a rule the seem of the pain is in inverse proportion to the diseased condition of the kidney. Undoubtedly some patients are especially susceptible to prin shock and reaction. Mayoric Militars MD.

Mucharinskij M A Subcutaneous Injuries of the kidne, Experimental Investigations (Ue for die subcutanen Nierenveitetzungen expen mentelle Untersuchungen) I erhandl d 16 ru s fahr kong Moscow 1925 p 69

In experiments on rabbits the author produced a subcutaneous injury of one kidnes by crushing the

organ with bis fingers. After the injury the animals were kept under observation for about seven months. The hæmaturia, the quantity of urine, and the hæmatoma in the lumbar region were watched from day to day, roentgenograms were made, and both the infact and the injured kidnes were finally examined microscopically.

In the injured organ there were degenerative changes which in some cases had progressed to complete atrophy of the organ and the deposit of calcium. Investigators (Maas, Tuffier) who are rather optimistic regarding the fate of traumatized kidneys and advise conservative treatment, do not realize

the significance of these changes

In so per cent of the animals the author was able to demonstrate also changes in the uninured laid ney, beginning the third week. First there was a hyperamia, then a thickening of the membrana propria of the tubules of the medulla and the cortex, and finally interstitial proliferation of connective tissue with compression of the tubules. The author draws the following conclusions.

Subcutaneous injuries of the kidney cause a slow degenerative process which may lead to complete atrophy and calcincation of the organ. As a result, adhesions may form to near by structures—the in testines, spleen, omentum, etc—and these organs may become involved by the pathological process. In many cases stricture of the ureter and hydro

nephrosis may develop

In the uniquired kidney there occurs a slowly developing interstitud change. The extent of the injury cannot be judged with certuinty from the severity of the hematuria, the retroperitoneal hematuria the pain or the quantity of urine Only early exposure of the kidney can give definite information. Conservative measures seem advasable only in relatively slight injuries. In more serious in juries the extripation of the injured kidney is to be considered as the other kidney may be seriously in juried by its presence.

1 eComte R M Spontaneous Rupture of Hydro nephrosis J Urol 1926 vv, 517

The author reports the case of a man 25 years of act of the who entered the hospital with a history of acute renal colic on the right side and profuse hamattuna followed by the formation of a tumor in the region of the right kidney. Exploration disclosed free blood and clots around the right kidney, a long tear in its anterior surface, and marked hydronephrosis. The author beheves that a vessel broke into the hydronephrotic sac, and that the sac was eventually rup tured by the pressure of the clots which could not be evacuated. H. L. Syndom M.D.

Carson W J and Goldstein A E. Experimenta Nephrotomies III Nephrotomy Without Su tures in Dogs with Single Kidneys J Led 1926 xv 505

The technique in the experimental work reported in this article consisted in noting the badhey in its midline along its longitudinal ans down to the pelvis quickly sponging the bleeding surfaces and holding them together by light pressure with the fingers until all bleeding cased. After the hleeding had stopped the kidney was observed for from fifteen to twenty minutes. Following that recovery from the operation, the animals were killed after varying periods of time for gross and microscopic study of the kidneys.

Of fifteen dogs thritten were operated upon twice one was subjected to three operations and one was subjected to four. All of them recovered from all operations. In dogs with two kidneys the bleeding time varied between four and eight and a balf min utes while in those with single kidneys it varied from five to fifteen minutes and averaged about eight.

minutes

Following the nephrotomy on the dogs with a single kidney macroscopic blood was observed in the unne for from two to five days There were no post operative complication such as hamorrhage uramia infection fistulæ or infarction. In two does calcula were found in the pelvis after the operation In dogs that were sacrificed within forty days after the nephrotomy on the single kidney no definite change in the size of the organ was noted while in those sacrificed after forty days the kidney was somewhat smaller The destruction of kidney tissue was minimal The authors conclude that the function of these kidneys was reduced to a less degree than if sutures had been used H I SANEDRO M D

### GENITAL ORGANS

Belfield W T and Rolnick II C Roentgenog raphy and Therapy with Iodized Oils J Am W 135 1930 lyxxvi 1031

The authors state that the usefulness of bipodol and oddpin is restricted because these preparations are non absorbable and may cause irritation and catarix formation. The found therapeutic efficiency with harmlessness in todol to gan in 40 c em of cold ire ord; it's percent of donleneb wit, bit) and in thy mol todde 10 gan in 30 c em of cold liver oil fluids is suggested for the examination of the sem inal vesicles. Either of them will clear the vesicles of gonococci and other progenic cocci

In discussing industrial herma the authors call attention to Bogros space which is formed by the loose connective it sue at the interrel inguinal ring where the sheaths of the scrotal and intrapelvic vasmeet and where infections cause swellings that simulate herma. Such swellings may be cured by treatment of the infected vesseles.

BENIAMIN F ROLLER M D

## MISCELLANEOUS

Mckay II W The Application of Modern Urolog ical Diagnostic Methods in Lediatrics Case Reports South M J 1926 xix 460

Mckay calls attention to the fact that children are subject to the same gento unnary conditions as adults and should have the same careful unological examinations. Such examinations are indicated in cases of prima enuresis over distention of the bladder abdominal tumor and harmatura. Small instruments are now made for the cystoscopic may be considered to the cystoscopic and the cysto

Soveral interesting cases are reported. In the case of a girl 8 years of age who had had dribbing of urine sance birth examination revealed an anomalous unter extending from the bladder to the urethral meatus near Stenes duct. The conditions in the other cases reported were distation kinning and stone of the ureter, tumors, malignance, and colon bacillus pyelths. Brylann V Rotten M D

Briggs W T and Maxwell E S Leucoplakia of the Urinary Tract with Reports of One Vesical and Two Renal Cases J Urol 19 6 xvi I

Leucoplakia is a rare condition but is probably not as rare as is suggested by the comparatively small number of cases reported to date. If the urinary tract is considered as a whole it occurs oftener in men than in women but in the kidney its incidence is about the same in both sexes. The renal pelvis is probably affected oftener than the bladder since there is little difference in the number of renal and bladder cases reported in spite of the fact that vesical leucoplakia can be diagnosed by cystoscopy alone whereas in renal leucoplakia the diagnosis can be made only at operation or autopsy The condition may occur at any age but the average age at the time of diagnosis in the eighty cases re viewed by the authors was ar years. The renal pel vi was involved earlier than the bladder

No constant bacteriological findings have been reported and in four of the cases reviewed cultures

of the urine were reported negative

The cause is unknown Irritation from infection or stone or both is often present. However in several of the cases reported no bacteria were discovered and in many there were no stones. Desquamated coranfied epithelium may act as a nucleus for stone especially if infection is present.

There are no pathognomonic symptoms but the passage of pieces of membrane should always suggest the condition

In the treatment of leucoplakia of the bladder rehance must be placed on resection electrodesic cation or radium irradiation as the condition does not respond to irrigations and instillations The authors report the following three cases

Case 1, vesical leucoplain. The patient was a woman 35 years of age who first consulted the authors in 1918 because of intermittent pain in the left rend area which had been present sance the birth of a child six months previously. Pelijo nephrotomy was followed by relief for about eight months, but at the end of that time the puin recurred and was more severe than before. The patient was then found to have a pyonephrosis on the left side. In a period of fifteen minutes there was no output of dye on the left side and 140 per cent output on the richt side.

In November, 1020, the left kidney was removed The patient then had a vesical infection which treat ment failed to relieve, but there were no symptoms of cystitis Cystoscopic examination in August 10 1, revealed a few leucoplakic spots on the tri gone A specimen of urine from the right kidney showed no pus or bacteria. In March, 1925, a mild cystitis developed, and in July, 1925, there was hematuria Cystoscopic examination in July showed two leucoplakic spots in the trigone and a very red sessile tumor mass suggesting malignancy Radium treatment was given Four months later the tu mor mass was still present but was less prominent One of the leucoplakic spots had disappeared and near the other there was some shreddy material suggesting leucoplakic material being thrown off

Case a, renal leucoplakia This was the case of a woman 37 years old who was treated seven years ago for cysitus but had had no bladder symptoms since then Sbe entered the hospital again in June 1924, with renal colic on the left side. The patient was well developed and physical examination revealed nothing abnormal except a rather dark skin The urine showed a trace of albumin, numerous pus cells, an occasional red cell and many bacteria but no tubercle baculi.

Roentgenograms of the urmary tract were neg attre On cystoscopic examination the bladder mucosa was found to be inflamed. The urme from the right kidney showed albumin, a few pus cells and a phthaleis output of 25 per cent in the first twenty five minutes. The specimen from the left

kidney showed albumin, numerous pus cells a dye output of 12½ per cent in twenty five minutes and, on culture 1 moderate growth of streptococcus humoly tues Fylograms revealed infilmmatory dilatation on the right side und early hydronephrosis on the left side. Up to the time of her death ten months later the patient was treated with pelvic lavages and urinary antisepties. At autops, the left kidney was found larger than normal. The pelvins, which was distended and fluctuant was almost entirely lined by a pearly white glistening membrane.

CASE 3 renal leucoplakia The patient was a pira iv whose youngest child was born fire years ago Her present illness began four weeks ago with pain in the right lower quadrant of the abdomen for three weeks, sweating had occurred every two hours day and night, and there had been moderate dysuria and tenesmus with considerable puria but no harmatura. Investigation revealed that the patient had been baying similar attacks of pain for the past thritten years. The attacks were always accompanied by nauser and vomiting and came on suddenly. Seven years ago the removal of the right kidney had been advised.

On possical examination the patient was found to be undernourished and to have pyorrhear. The right kidney was enlarged and there was tenderness in the region of that organ. The right ureter was felt as a thickneed tender cord. The rinne which was acid turbid and foul smelling, showed a moderate amount of albumin, a moderate number of red cells, and a large number of pus cells. Cystoscopy revicaled inflammation of the bladder mucosa and thick pus coming from the right ureter. A diagnosis of pyonephrosis was made, and the right kidney removed.

Section of the Lidney showed the calices draining numerous abscesses which had destroyed most of the cortical tissue. The lining of the pelvis was a pearly white winkled membrane which covered the walls of some of the distended calices and lined the urcter for a distance of about 1 cm. The pathological diagnosis was pyonephrosis and leucoplakia of the kidney pelvis.

\*\*Claude D. Holmes M. D.

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

### CONDITIONS OF THE BONES JOINTS MUSCLES TENDONS ETC

Tavernier A Form of Bony Leslon Intermediate Between Myeloplaxomata and Bony Cysts (Une forme de lésion osseuse intermédiate entre les tumeurs à myéloplaxes et les kystes des os) Bull et mêm Soc noi de chir 1036 lin 17

Tavermer discusses a bone condition regarding which there is considerable argument namely the hemorrhagic osteom clitis of Barrie. He describes the microscopic findings in this condition and reports three cases he operated upon

The application of the term hamorthague osteo of the term between its incorrect Preferable as the term bony cysts with barmorthague contents suggested by Nalayama The cysts are usually bening Tavenner argues against amputation believing the treatment of choice to be bone grafting and closure of the cavity without drainage and calls attention to the danger of infection when fit muscle or osteoperosteal grafts are used to plus fit muscle or osteoperosteal grafts are used to plus

PALL C COLONNA M D

Sorrel E Localized Tuberculous Arthritis of the Wrist in Children (Des arthrites tuberculcuses localisées du poigne chez l'enfant) Bull et mêm Soe nat de chir 1926 lu 86

the cavities

Recently I Heureux described a carpus with only one row of bones in an adult. From the roentgen picture and the fact that the wrist was freely moy able he concluded that the cause could not have been tuberculosis in childhood. He therefore attributed the condition to traumatism.

Sorrel reports the case of a child 91 years of age whom he recently treated for tuberculous of the wrist. The wrist supportated and a fistula developed but following recovery; the wrist was freely movable and the roentgen picture was very similar to that in the case seen by I Heureux. In the roentgengram the second row of carpal bones seems to be fused with the bases of the metacarpals

It has often been said that in therculoss of the the first of the content of the

These localized forms of tuberculosis of the mist are frequent in children hecause until they are completely ossified the small bones of the carpus have a cartilagnous sheath which separates them from each other and pre-ents the extension of a tuberculous process. After complete ossification these localized forms no longer occur. This fact is not sufficiently emphasized in the heterature and as a result many surgeons adviser resection in severe tuberculosis of the wrist in children when it is not necessary.

4 works of Moran VLD

Jorge J M Congenital Contracture of the Palm (Retraction palmaire congenitale) Rev d orthop 1926 xxviii 97

Jorge describes a congenital contracture of the hand in a 3 para-old girl whose mother had a similar contracture which had been present since her birth. There was no history of such a condition in any other members of the mothers family. As the Wasser mann reaction was positive in both the mother and the daughter the author concludes that the cause of the contracture was connective tissue byperplasia due to syphilip.

The deformity in the child's hands was first noticed by the parents when the child was a month old but the author believes it must have been pres ent at birth The palm is more concave than normal and the first methearpal bone projects forward and inward thus evaggerating the thenar eminence The singers are in permanent partial sevion but as the metacarpophalangeal joint is extended the curva ture is caused by the sexures of the interphalangeal joints The thumb is semiflexed All movements are preserved but with the exception of the thumb which can be extended to a right angle the fingers cannot be straightened out completely. When the fingers are passively stretched it is possible to feel the traction which the skin and the palmar fascia exert on the base of the fingers In the anteroposte rior roentgenogram pregularities in the centers of ossification of the heads of the metacarpals are seen In the lateral view the heads of the proximal phalanges show some volar bowing Slight volar bowing is seen also in the middle phalant

The mother's deformity is like the child's though more advanced. When the mother was 100 years old an operation was advised but was not permitted by her parents. The right hand presents a varis de formity forming an angle of 130 degrees with her forearm. What flevion is normal but extension is impossible beyond 130 degrees. Extension expressible beyond 130 degrees. Extension to the control of the control of

The skin folds are still preserved. The thumb is rotated inward and flexed to 140 degrees. Neither extension nor abduction of the thumb is complete When they are attempted a cutaneo aponeurotic bridge is formed, extending from the base of the digit to the upper and medial part of the palm and hamper ing movement. In the fingers the metacarponhalan geal joints are extended, while the interphalangeal joints are permanently flexed to about 100 degrees When the fingers are extended there is a palmar bridge which extends from the proximal phalanx to the base of the terminal phalanx

The left hand is about the same as the right except that it is in a slight valgus position. The anteroposterior diameter of the fingers is increased by the cutaneo aponeurotic band In the \ ray plates the heads of the proximal phalanges are seen to be curved forward to form an angle of from roo to 130 degrees with the body of the bone. On the posterior aspect of the joint there is a small out growth which interferes with extension The middle phalanx is also curved forward but to a less degree The terminal phalanx shows a very slightly elon gated S curve

This deformity is easily distinguished from Volk mann's contracture. It resembles in its pathology Dupuy tren s contracture but the two conditions are not the same In Dupuy tren's contracture the meta carpophalangeal joint is flexed and the fingers may pierce into the palm, the condition is usually uni lateral, begins in the ring or little finger, and may affect the middle and index fingers not at all or only very slightly. Though a hereditary influence is pres ent in Dupuy tren's contracture, in most of the cases

the contraction begins in later years With regard to the treatment in the cases he reports, the author states that in his opinion anti syphilis agents and local measures will correct the deformity in the child, but in the case of the mother operative measures would be necessary

M L MASON M D

Mayer M and Testu C Alternating Scoliosis Scoliose alternante) Bull et mem Soc med des hop de Par 1926 zlu 124

The case reported in this article was that of a man 28 years of age who, for eight months, had had continuous spontaneous pain in the lumbar and sacro that region on the left side. The pain radiated to the buttock but not to the leg and was increased by fatigue and standing Examination revealed a marked scoliosis of the lumbar region which was convex to the left and bent the trunk toward the right the direction away from the painful area The condition was therefore a crossed scoliosis There was no disturbance of the reflexes, amvotrophia, disturbance of sensation, or point at which pressure caused pain The scoliosis was more marked than that ordinarily found in sciatica

Attempts made by the authors to reverse it were unsuccessful, but the patient was able to reverse it hy making an abrupt leap with his hands supported on the back of a chair or with more difficulty, without any support. On this movement the scoliosischanged immediately from right to left or from left to right The movement suggested the release of a spring in the lower lumbar region Ordinarily and during repose the scoliosis was crossed, but the patient could transform it at will to a homologous scohosis The movement was painful but as soon as it was completed the pain stopped. There was no muscle contraction, the movement was purely mechanical

A roentgenogram taken with a Potter Bucky dia phragm showed flattening of the third and fourth lumbar vertebræ on the right side the two vertebræ forming a wedge which slipped in and out of its mortise The reversal of the scoliosis from one side to the other was produced by the slipping of the wedge in or out There were no bone proliferations or bony processes The authors are unable to state whether the flattening of the vertebræ was due to arthritis AUDREY G MORGAN M D

### SURGERY OF THE BONES, IOINTS. MUSCLES, TENDONS, ETC

The Repair of Bony Cavities in Children (De la reparation des cavites osseuses apres evide ment chez i enfant) Bull et mem Soc nat de chir . 10 6 In 360

Many surgeons employ bone or osteoperiosteal rafts to fill bone cavities when the latter are be heved to be aseptic and can be closed by suture without drainage. In the absence of fistula and secondary infection, borrel merely sutures over the cavity and does nothing else. This treatment has never failed to be followed by bony repair without complications

Sorrel reports the case of a 17 year-old girl with ostertis and sequestration of the lower end of the radius The sequestrum was removed and the cavity then cleaned and closed without drainage Primary union resulted and after eighteen months the re placement of the bone was complete

In a case of spina ventosa of the first phalanx of the middle finger in a girl 101/2 years old the removal of a large central sequestrum was followed by com

plete repair

The same technique gave a good result also in two cases of osseous tuberculosis in the lower end of the femur After two years the cavity was com pletely filled

In the cases of adults the author has removed at least 100 bony transplants, some of which included the entire thickness of the bone. They ranged from ro to 14 cm in length to 11 to 2 cm in width Most of them were used in the treatment of Pott s disease All were removed with the electric saw The cavity formed by their removal always filled easily and the bone seemed to take on its original

In the discussion of this report, Bazz said that renair does not always occur in this manner in adults During the war he frequently removed foreign bodies from the upper end of the tibia cleaned out the cavity closed it and obtained primary union Then probably because the patient walked too soon the upper surface of the tibia became deformed and genu valgum or varum developed the newly formed bone being weak. Bazy believes that if a bone graft were implanted in the cavity in such cases such complica tions would be prevented

MOLCHET stated that the same treatment cannot be applied to cavities due to bone cyst and those due to tuberculosis For the former he uses osteo I ELLOGG SPEED M D

periosteal grafts

### FRACTURES AND DISLOCATIONS

Plisson and Rouvillols 'Total External Luxation of the Elbow (Luxation externe totale du coude) Buit et mêm Soc nat de chir 1926 li 1108

Rouvillois reports a case which was called to his attention by Pli son The patient suffered a lateral luxation at the elbow of both bones of the forearm from a fall on the outstretched hand. As several attempts to maintain the reduction by plaster were unsuccessful elastic traction was employed. The end result was most satisfictory

Plisson believes that literal luxation is always pr ceded by buckward dislocation. He advocates

the more general use of elastic traction in the reduction of dislocations PAUL C COLONNA M D

Courty and Alglave The Treatment of Imperfectly Consolidated Bimalleolar Fractures (Au sujet du traitement des fractures bimalléolaires vicieuse ment consolidces) Bull et mem Soc nat de chir 1926 li 1110

Alglave reports a case of Dupuvtren's fracture treated by Courty in which the original deformity was still present when the dressings were removed after immobilization for thirty days | Three months after the accident an astragalectomy was performed with very satisfactory results. Astragalectomy gave a good result also in two cases of bimalleolar fracture treated by Alglave In a third case Alglave obtained a satisfactory result from a modeling operation on the ankle joint

In Alglave's opinion it is almost impossible to maintain the reduction of bimalleolar fractures by means of plaster if there has been much displace ment Duval came to the same conclusion from roentgen ray studies made during and after reduction Alglave therefore employs open reduction with screwing. He describes two types of osteotomy one above the site of fracture and the other through the fracture He prefers the latter

PAUL C COLONNA M D

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

### BLOOD VESSELS

Bomasch I The Innervation of the Blood Vessels of the Lower Extremity (Die Innervation der Blutgefaesse der unteren Lytremitiet) Chir Sammelh d propoedeut chir Klin in d Inst f Krebs forsch I Woskauer Statismun 19, p 17

The author attempted to determine (1) the effect of the local tonus upon the caliber of the blood vessels and its dependence upon the higher voluntary and autonomic centers (2) the relationship between the two systems and (3) the conduction path of the central impulses to the periphery.

The studies were made on cadavers which had been injected with 3 to 5 per cent nitric or action and and then treated with water. By this procedure the nerves were rendered very distinct.

On the basis of his experiments and a review of the literature the author concludes that the peripheral vessels possess a tonus of their own which is independent of the central nervous system. He was able to determine a constrictor function only for the antenior roots and the sympathetic lumbar ganglia, but never for the peripheral spinal nervos which send no constructors to the peripheral vessels. The dilators on the other hand, may be assumed to course in the peripheral nerves. These are identical with the sensory nerves of the vessels and possess reflex functions. The rann yasorum are sensory nerves and dilators. Afterus and veins are inner vated intain identical manner. Reinberg (Z)

Grigoriew A M. The Cure of a Giganite Trui matte Arterlosenous Aneutrism of the Abdom inat Aorta and the Inferior Vena Cava by the Woore Corridi Method (Ueber de Heilung cines nesigen traumitischen arteriovenoesen Aneutysma der Aorta abdominalis et V cava infer nach 1925 vin 83

In the case of a 40 year old alcohol addict who attempted suicide by shooting himself in the abdomen there developed, three weeks after the injury, a gigantic aneurism of the abdominal aorta and inferior vent cavi which at exploratory laparotomy appeared to he moperable. The introduction of a loved by gradual diminution in the size of the aneurism and improvement in the general condition of the natient.

Later, the patient was re admitted to the hos pital because of loss of strength and a tumor in the expession. At a second laparotomy the ancu rysmal sac which was found collapsed was spbt open and the spiral wire, which was surrounded by soft tissue, was withdrawn Complete recovery fol

lowed The patient has now been working at his occupation of locksmith for about a year and feels entirely well Alipow (Z)

Chauvin Esmenard and Jaur The Part Played by the Congulability of the Blood In the De velopment of Postoperative Phiebitis (Recher ches sur le rôle de la cangulabilité sangune dana production des philibites postop/ratoires) Gynte et obst 1935 vm 233

The authors discuss the theory that postoperative philotits may be due to an effect upon the coagulability of the blood produced by the operation or the anaesthetic

The congulation time of a series of normal subpects was found to be very uniform ranging from tenand one half to eleven minites. A study of a series of patients before and after operation showed that the influence of the operation on the congulation of the blood was very slight and bore no relation to the type of operation or the type of an esthesia

In eight patients developing phlebits, a slight decrease in the congulation time averaging a minute and a quarter was found, but this variation was no greater than that observed in many patients with a normal postopertive convulsement.

The authors conclude that if the congulation time of the blood is a factor in the development of phle bits it is only a minor one. In the literature, similar opinions have been expressed with regard to puer peral philebits. ALBERT PAGROAT MD

Tolsthoff D F Changes in the Blood Pressure Under the Influence of Operations (Veraende rung des Blutdruckes unter dem Einfluss von operativen Imprifien) Verhandt å 16 russ Chir Kon., Moscow 1925 p 139

The author made about 2 000 determinations of the blood pressure in roo patients. In the majority they were made several times before operation and during a period of from eight to ten days after it in twenty cress they were made also during aniss thesia and operation. The Riva Rocci apparatus and the Korotkoff method were used.

In 75 per cent of the cases the blood pressure was microsed before operation by the psychic exertement. The increase was especially marked just be fore the operation. At the beginning of the ares thesa the pressure was still high, but then gradually sank with the depth of the narcosis, even reaching subnormal values.

After operations performed under general anass thesas the pressure was elevated in 75 per cent of the cases and returned to normal gradually only after from two to ten days in 21 per cent of the cases no noteworthy changes occurred, and in 4 per cent

there was a marked fall due to the gravity of the operation and the los of blood

In cases in which local anasthsia was used the blood pressure remained high during the operation and showed no great variations during the post operative period KORNMANN (Z)

#### Brown G E Treatment of Peripheral Vascular Disturbances of the Extremitles J Am If 1ss 1026 lxxxvn 370

There are two main types of vascular disturbances affecting the extremities which are classifiable on the basis of their functional or organic origin. The functional or vasomotor disturbances fall in two clinical groups as the vasomotor mechanism is ca pable of only two responses vasoconstruction and vasodilatation. When the vasomotor balance of the limb is preponderantly toward the vasoconstrictor side and the blood flow is diminished the surface temperature is reduced and the limb is frequently pale or cyanotic The degree of coldness and of pallor or evanosis of the extremity depends upon the amount or degree of vasoconstriction

When vasoconstriction occurs in attacks in the hands or feet with well defined local color changes subjective symptoms and frequently trophic disturbances the condition is recognized as Ray naud s discase Milder vaso pastic disturbances are designated as dead finger or white finger acrocyanosis or acro asphyxia The condition characterized by intermittent attacks of undue vaso dilatation of a peripheral vascular segment with red ness and subjective symptoms of heat is known as

of crythromelalgia a primary or essential form existing in the absence of any demonstrable organic vascular disease and a secondary form appearing in association with arteriosclerosis. In the latter the objective evidence of increased vasodilatation may be lacking but the patient notes intermittent attacks of a burning sensation in the extremities The symptoms suggest paræsthesia more than a disturbance in the blood flow

The organic or obliterative lesions involving the ex remities are mainly of two types thrombo angu tis obliterans or Buerger's disease and endartentis obliterans or arteriosclerosis with or without super imposed thrombosis. The so called diabetic gan grene has a similar arteriosclerotic basis Thrombo angutis obliteran is a chronic thrombosing process usually involving the peripheral arteries and veins The early pathological picture shows a soft red clot filling the vascular lumen and containing erythro cytes and fibrin. There are subsequent stages of fibroblastic organization and canalization Aside from a diffuse cellular infiltration of the arterial coats suggesting an infectiou basis there is no evi dence of any of the changes involving the intima or media that characterize endarteritis obliterans Buerger was the first to point out this essential difference in the two diseases. In arteriosclerosis of the peripheral vessels the lumen is gradually nar

rowed by the proliferation of the intima Degenera tion of the muscle fibers and the deposition of cal ciuro are the usual sequence of events. The super imposition of a simple thrombus usually precedes the advent of gangrene The cellular nature of the clot so characteristic of that observed in thrombo angutis ohliterans is lacking. The process is degen erative and lacks the evidence of an infectious basis which is seen in thrombo angutis obliterans

Medical treatment of Ray naud s disease and allied vasospastic disturbances has not been successful and theoretical considerations would indicate a surgical procedure to produce interference with the vasomotor paths to the extremities Perivascular stripping is not followed by a demonstrable increase in the blood flow of the extremity but removal of the second third and fourth lumbar sympathetic ganglia and perivascular neurectomy of the common that arteries produces this effect in the lower extremities It is probable that a permanent yas cular dilatation in the feet ensues, with disappear ance of the vasoconstricting action The blood flow is markedly increased as shown by quantitative studies of the loss of heat and the surface tempera ture Trophic ulcers heal rapidly and the signs and

symptoms of the disease disappear completely

The treatment of the chronic organic obliterative diseases of the extremities presents another type of problem In these cases medical supervision and therapy are of great value In thrombo anguits obliterans the relief of pain is frequently the para mount consideration. In many cases the pains can be relieved for variable periods by the intravenous injection of foreign protein or of radium chloride and irradiation of the sacral spine with the roentgen rays When definite gangrene is absent and when relief from pain is attainable these patients can be tided over long periods with some hope of the es tablishment of circulators compensation servative measures to avoid amputation are neces sary as the disease is bilateral and double amouta tion means economie disaster for the patient Larly diagnosis is essential. Unfortunately this disease is not well recognized by physicians generally Fewer than 20 per cent of the cases reviewed by the author were correctly diagnosed before investi gation at the Clinic In most of them valuable time was lost during the period when protective and simple physical measures might have prevented the serious sequelæ

When these patients show beginning trophic disturbances and suffer the usual distressing pain the operation performed by Adson seems to offer additional chance of preventing the loss of limbs When the pain is controlled amputation may be delived indefinitely. With the institution of protective and other rocasures to increase the circulation in the feet these patients can arquire a moderate degree of use fulness and activity The permanence of the vaso dilating effects of operation cannot be stated at this time Brown is of the opinion that if amoutation is eventually necessary after lumbar ganglionectomy

it will be possible to perform it at a lower level on account of the additional vasadilatation

A proper selection of the cases for operation is most essential, and the use of the protein reaction to determine available vasodilatation seems advisable as a pre-operative test. Comparison of the pre-operative use in the surface temperature to protein fever with the postoperative values seems to indicate a fairly close parallelism. It would be futile to attempt the radical operative procedure in the abeace of any available dilating vessels. Patients with endarteritis obliterians show slight or no vaso dilatation, and the age and general condition of these older patients, who frequently have general used degenerative lessons of the heart or kidney contra indicate an operative procedure of this magnitude.

### BLOOD, TRANSFUSION

Odnow, D. E. Changes in the Viscosity of the Blood Under the Influence of Anresthesia and Operation (Ueber Veraenderung der Blutisco i tate unter dem Einfluss der Annesthe te und Opera tion) Verkundl d. 16 russ. Chir. Kong. Moscow, 19.3 p. 15.8

One thousand examinations made in the cases of secent-wone paients showed that even preparation for operation caused a more or less marked increase in the visco ity of the blood. Operative trauma and both local and general anesthesia caused an increase in three fourths of the cases. In one series this effect was noted after from thrit to ninet's minutes and in another series toward the end of the first div. After from we to eight days the viscosity returned to normal. In most of the cases with postoperative complications the viscosity of the blood was markedly increased, even hefore the clinical symptoms of the complication became evident.

KORNMANN (Z)

\text{\text{Nsner E J The Effect of Operation upon the Changes in the Coagulability of the Blood (Ceber die Einfl., a der Operation auf die Veraen derugen der Blutgerinnungsfachigkeit) 1 erbaud! 4 16 russ Chir kong Moscow 19 \text{\text{\text{ps}}} 150

The author made 1,200 determinations of the coagulability of the blood of eighty eight patients operated upon In thirty two ca.es the coagulation time remained within the normal limits both before and after operation. In such cases the postoperative period was normal complications occurring in only 9 per cent

In twenty three cases the coagulability was nor mal before the operation but was decreased after the operation and in eight (34 per cent) of these

case the postoperative period was not smooth Still greater was the incidence of postoperative complications—4 per cent—in their three cases in which the coagulability was decreased before the operation and remained decreased afterward In this group of cases there were two deaths

In 67 per cent of the cases the operation (preoperative preparation, operative trauma, and nar costs) decreased the coagulability. On the other hand decreased coagulability indicated early the development of complications such as pneumonia and hæmatoma. After the appearance of such complications, the coagulability may again return to normal

In 60 per cent of the cases an increase in the viscosity of the blood was found in association with a decrease in the coagulability and vice versa. In 64 per cent a simultaneous decrease in the number of blood platelets was found with a decrease in the coagulability. In 75 per cent a direct relationship could be established between the calcium content of the blood and its coagulability. Korkaive (2)

Salayan P G The Effect of Operation and Nar costs on the Calcium Content of the Blood (De-Einfluss von Operation und Narko e auf den Cal ciumgehât des Blutes) 1 crhondl d 16 russ Chir Keng Wo cow 102, p 160

The author made determinations of the blood calcium on filty patients at various times before and after operation and on fourteen dogs. The klarek method was used. It was found that narcoss and the loss of blood during operation had no effect.

The calcium content of the blood was lowered in severe ailments in which the general condition was poor such as echinococcosis cholecystits, and car choma of the breat 4 Mer the transplantation of testicles it showed a definite increase, and after the transplantation of ovary or thymus a decrease In 7,5 per cent of the cases the changes in the hlood calcium were parallel with the changes in the coag ulability of the blood

Melikow P. G. The Change in the Catalase Index of the Blood Under the Influence of Surgicat Operations (Die Veraenderung des Katalasender des Blutes unter dem Einfluss chrurgischer Opera tionen) 1 erhandl d 16 rusz Chir Kong Mos con 19 2 p 159

The author determined the catalase index of the blood ineighty three patients, fifts us of whom were operated upon under beneral amesthes; and twenty seven of whom were operated upon under local nums thesa. The determinations were myde by the Bach method with which according to Bach, the normal average index for man is between 14 and 18

On their entrance to the hospital the patients showed an average index of 16.8 After general anaesthesia and operation the index in 90 per cent of the cases showed a fall of from 10 to 22 per cent After operations under local angesthesia, no change was noted

During the postoperative period cases with a smooth course showed a fall in the index of 16 per cent on the second or third day, but after the sixth to the tenth day the pre-operative value was again reached. In cases with suppurations and hamorrhages during the postoperative period the index

showed a decrease of from 25 to 40 per cent Especially low figures were found in the cases of icteric patients and those who were cachectic from cancer

The transplantation of sex glands was followed by an increase in the index of about 15 per cent on the tenth day after the transplantation in 80 per cent of the cases hut transplantation of the thyroid and thyroid operations were followed by a fall of from 25 to 28 per cent KORMANA (Z)

Rappoport P L The Changes In the Number of Leucocytes and the Leucocyte Formula During the Postoperative Period (Die Verzenderingen der Leukocytose und der Leukocytenformel in der postoperaturen Lettode) Lerkandl d. 16 russ Chir Kong Mo con. 1923 p. 150.

The author studied the leucocytes by the Schilling method in the cases of unety patient was examined six times—immediately before and after operation and on the second thord fourth and sixth days after operation. The cases included twenty four of herma and chronic appendictus ten of cholecy stitis fourteen of malignant tumors and eight of purulent infection. Local anæsthesia was used in twenty three cases, spinal anæsthesia in five

and general anæsthesia in sixty two

In all cases there were changes in the absolute and relative numbers of the leucocytes and the more extensive the operation and the longer the duration of the anæsthesia the more definite and persistent these changes After all operations there was a leu cocytosis with an increase in the number of neutro philes a decrease in the number of lymphocytes and disappearance of the eosinophiles The leuco cytosis was especially marked after general anxis thesia the number of leucocytes reaching as high as 35 000 per cubic millimeter in some cases although in the majority it was between 18 000 and 10 000 After the use of ether the leucocytosis was some what higher but less persistent than after the use of chloro form During the first few days after the operation the count gradually decreased and by the tenth day had reached normal

After local anasthesia the leucocytosis was high for only two days and on the third day rapidly de creased After lumbar anasthesia induced with a to 5 per cent solution of novocain a leucopamia was noted. The author believes that novocain in

troduced into the spine has a depressing effect upon the centers regulating the formation of leucocytes In the basopbile leucocytes no changes were noted

in the dissopbile leucocy tes no changes were noted. The cosmophile leucocy tes dissuperared in all cases immediately after the operation even in cases with a definite cosmophilia. As a rule they were not demonstrated again before the sixth day after operation. Their re appearance in the normal proportions (2 per cent) is to be regarded as a good sign of convalescence.

The most marked changes after operation were shown by the neutrophile leucocytes especially the younger forms The appearance of myelocytes and an increase in the number of rod shaped neutrophile leucocytes indicate the presence of complications A progressive increase in the number of rod shaped neutrophile leucocytes is particularly omnious. The number of lymphocytes was low as compared with the other cells but the actual number showed a slight decrease only on the second and third day after the operation.

Particularly poor blood pictures were found after exploratory laparotomies for malignant tumors. In these cases the resistance of the cry throcytes was also decreased. In the majority of cases the leucocytosis was paralled with the increase in the viscosity of the

blood and in inverse relation to the number of blood platelets Kornmann (Z)

Sookoloff W. 1. and Gladyrewsky N. L. The Changes in the Number of the Erythrocytes and Blood Platelets During the Postoperative Period (Die Veraenderungen in der Zahl der Fryst nocytes und Blutplattichen in der postoperativen Periode). I erhandt d. 16 russ Chir. Kong. Mos. COM 1015 [D. 155].

The authors determinations of the number of erythrocytes and blood platelets during the post operative period were made on eighty eight patients and four anasthetized dogs. No change in the

number of erythrocytes was found

The blood platelets were counted by the method of Fono according to which the normal number is 234 000 per cubic millimeter. After operation under spinal anasthesia in two cases and under local anasthesia in twenty six no typical changes were demonstrable. In forty three (72 per cent) of sixty cases the number was somewhat diminished during the first few hours after the anasthesia very mark colly diminished on the second and third days somewhat increased on the sixth day and again normal on the tenth day. In seventeen cases (28 per cent) the blood platelet count was not made.

The fluctuations in the number of the blood plate lets in the majority of the cases examined are attrib

uted by the authors to the anæsthesia

A study was made also of the relationship between the number of blood platelets and the coagulation time of the blood. It was found that a normal number of blood platelets corresponded to normal coagulation and a diminished number of platelets to decreased coagulation.

Gabriel W. B. A Simplified Technique for Blood Transfusion by the Kimpton Brown Method Lancet 1926 cct 1255

Whole blood transfusion by the Aimpton Brown method is still the procedure of choice when it is possible to bring the donor and patient together A disadviotage in the use of the Kimpton tube bowever is the necessity of cutting down on the dooor's year.

In the author's technique a kimpton tube is prepared and sterilized in the usual manner filled with a small amount of a 3 8 per cent solition of sodium citrate and connected with a gauge r5

needle. The hundred cubic centimeters of blood are then withdrawn through the needle from the donor's forearm. As the blood enters the tube it pushes the sodium citrate up as 1 layer, this making it possible to give the patient the entire amount of blood withdrawn without the risk of blowing air into the vem

After the withdrawal of the blood from the donor the needle is removed from the vein and from the tube and a swab of cotton soaked in 3 8 per cent sodium cirate solution is held over the nozzle of the tube until it is passed into the vein of the recipient. The introduction of its tip into the vein is facilitated by bolding the walls of the vein apart with fine forcers.

It is necessary to cut down on the recipient's vein in all cases. When the vein is very small it may be difficult to introduce the tip of the tube. In such cases the author has incised the vein and tied a small needle in place just before taking the tube from the donor.

Korganowa Mueller F S The Causes of Reactions Following Blood Transfusion (Zur Frage ueber die Ursachen der Reaktion nach Bluttransfusion) Russkaja klin 1925 iv 46

The causes of reactions after blood transfusion may be divided into two groups the technical and the biological Those of the first group include too

rapid transfusion, partial destruction of the ery thro cytes in the pissage of the blood through the needle especially in transfusion with pressure (syringes, apparatus for salt solution infusion), the formation of small unrecognizable clots (in direct transfusion), and, according to the opinion of many authorities, the torus extension of sodium citrate

Of greater importance are the biological causes. Chef among these is faulty blood grouping. It is necessary to determine the agglutinating properties not only of the crythrocytes but also of the serum. The ruthor believes that the aglutinating properties of the blood are constant. In investigations mide on 15- patients before and after anesthesia) and before and after electrical and \(\bar{\chi}\) ray territment he was unable to find any change in the reactions. In several cases parallel tests of the serum corrected errors in the determination of the agglutination group and revealed their cause.

In conclusion the author states that even with the determination of the blood group and perfection of the technique, the problem of blood transfusion has not been solved as there are apparently other bloochemical properties of the blood which are of great importance. As blood transfusion may be associated with danger, it should be performed only when it is definitely indicated.

Block. (2)

## SURGICAL TECHNIQUE

# OPERATIVE SURGERY AND TECHNIQUE POSTOPERATIVE TREATMENT

Souttar II S Ormond A W kilner T P
Poolev G II and Others Discussion on Plas
tic Operations on the Face in the Region of the
Eye Proc Roy Soc Utel Lond 1926 vix Sect
Ophth 14

The problem of the removal of harv moles from the region of the eve is distinct from the relatively simple problem of removing them from other parts of the body

SOUTTAR uses arm flaps in this operation and recommen is them especially for children. They must be fairly long to allow room for proper care and cleansing

Omnoh reparts loss or injury of the evelids with (1) autoplastic or homoplastic flaps augmented by bone or earthage or (2) grafts either pinch or listend flaps advocated by Deser and Arnheim have a good cometic effect as there is no turned skin pedicle to be een subsequently and the tension is could everywhere. These grafts have a free sur

face all around and are nourished by a subcutaneous pedicle that contains an adequate blood supply. The shifting of healthy neighboring, kin into the defect is not always successful in this region because

of ubsequent contraction

Contracted ockets present a problem berause the lost imag is officiou to restore and mucow membrane grafts and epithelial mlays undergo marked contraction when they are placed on soft itssue with no firm attachment to prevent their shrinkage. If the socket could be filled with cart lace parafilm or filigree ball and a convex stent with epithelium over it applied to this firm surface a bet ter working basis would be established.

The technique of Thiersch grafting is important A large vin has bludde hine is used. The field is kept most with sahne solution. The graft is temoved from the limite blade with needles and a stream of saline solution and minimal handling. It is mide is large and as thin as possible All granulations are cut from the wound with scissors and perfect hemostasis is then obtained by pressure. The wound is dressed dry and the dre sing left on for a week and then solved for a week and then solved for a week and then solved for the solution.

KIN-EE reports that in cicatrical ectropion from hatever cause he obtains uniformly good results from the use of the epithelial outlay. An incision i made from canthus to canthus just outside the ciliary margin the suleus is deepened and all sear band are opened until the hid ean be placed in an overcorrected position. A mold is made of the resultant raw surface a Thierschip graft is draped over

the mold and the mold and graft are applied to the raw surface and fastened with sutures running through the edges of the wound and the graft and tied over the mold. Failure of this method is usually due to its use when the haining of the hid is must ing and a more extensive hid replacing operation is necessary or failure to exists all of the sear tissue.

New eyebrows are supplied either by pedicle or free Wolfe grafts from the scalp. The functions of the eyebrows are to protect the eye from the sun from sweat (in their absence sweat runs into the

eye) and from the wind

Symblepharon was successfully treated in two cases with Thiersch grafts over molds placed in the sulci that remained after the lids were carefully dis

sected away from the globes

POOLEY states that when in cases of defects caused by surpical procedures the areas are fairly free from sepsis plastic repair may be done imme diately. Fairly clean accedental wounds can be repaired as soon as they are clean and quiet. Burned areas should not be repaired until contraction of the scar has become nearly stationary. Areas resulting from sepsis and sloughing should not be repaired sooner than twelve months after activity has ceased as there is denier that the sepsis may light up.

All sear bands should be freed around the lids and the edges retracted as far as possible before the new flaps are put in position. A large flap with a wide pedicle is the most satisfactory and should be eronded into the defect rather than stretched across it This applies to the full thickness of the flap it being important not to leave any hollows in the subcutaneous area under the suture line Pooley usually sews the two hds together to keep them motionless during healing. The flap is left in place about six months. It is then detached and its base returned to its original bed. All bleeding is stopped but some subsequent bleeding under a pedicle flap will not hurt it. Hot fomentations are used if the vitality of the flip looks doubtful during the first few days A mixture of methyl violet 1/2 per cent brilliant green 1/2 per cent alcohol 35 per cent and water 64 per cent is used for preparation because other chemicals cause too much irritation of the consunctiva

Arm flaps are unsatisfactory because their use causes discomfort. The use of free skin grafts are also unsatisfactory because of the subsequent con

traction

Pooley has found the use of grafts in symble phaton unsatisfactory but obtained a successful result by stricking a sheet of rubber into the sulcus obtained by freeing the lid from the globe and allowing it to remain in place for months until epithelium had grown over the raw surfaces.

Shaw uses forehead flaps for repair after the excision of hæmangiomata, but advi es against the removal of such growths from the lids by excu ion In one case adequate blanching of the lower lid was obtained by searing it with the electrocautery on two occasions

OLIVER believes that the poor success of inlays in the orbit is the lault of the operator. He removes everything down to the periosteum, cuts one large graft, and fits the graft very snugly into the orbit

over a mold

EDMUNDS has found rodent ulcer to be responsible for the greatest number of restorative problems about the eye The removal of the growth i usually easy Repair is best obtained with sliding flaps and can usually be made at the time of the removal of the growth If the globe is involved and excision is done, the orbit can be closed with sound skin. When this is done the result is not very noticeable if spec tacles are worn. When the lids are to be restored with forehead flaps, preliminary cartilage grafts may he put in the flaps J B Brow M D

Ballance Sir C Some Experiments on the Con duct and Fate of a Ligature Made from the Parietal Peritoneum of the Ox When Im planted in Living Tissue Lancet 10 6 ccm 10

In the authors opinion, the best material for ligatures is the parietal peritoneum of the ox. This is strong, inelastic smooth, and phable, slowly

absorbed, and easily rendered aseptic

When a ligature is absorbed, it is replaced by nen living tissue The arrangement of the fibers of the new tissue is influenced by the structure of the ligature and the stages in which it yielded to solu tion The new tissue is formed along the lines of the old tissue. The old tissue is absorbed by the new, and as it is absorbed, new tissue is put down in its place

When an artery is ligated the attack of the invad ing cells on the ligature is confined for some time to the surface of the ligature which is fartbest from the arterial wall. This is due to the tension of the struc-

tures within the loop of the ligature

The anatomical features of plain and chromicized ligatures observed under the microscope are iden tical Chromicized ligatures and those made from hroad strips of membrane resist absorption for a much longer period than plain ligatures and those made from narrow strings

The multitude of cells which collect around the ligature is a striking and early manifestation of the reaction of the tissues to the presence of a foreign

body in their midst

When a peritoneal ligature is made from broad strips of tissue, absorption takes place mainly from the surface as it does in the case of kangaroo tendon A chromicized ligature of ox peritoneum made from broad strips of membrane appears to be perfect for the ligation of a large artery in continuity or for hermotomies As this ligature resists absorption for a somewhat longer period than catgut, it may be

employed to advantage also in many other operations Or peritoneum ligature is superior to catgut for all purposes. However, unless it is made in large quantities it would probably be more expensive than catgut MORRIS H KARN M D

#### ANÆSTHESIA

Lundy J S Balanced Anresthesia Med 19 6 1x 399

After di cussing the suitability of the various forms of an esthesia Lundy comes to the conclusion that no one of them meets all the requirements of the surgeon internist anæstheti t and patient but that a combination of the various agents might be used each in an amount small enough to prevent its having an unsatisfactory effect. The proper com bination of these agents produces a balanced anasthesia. Thus after the administration of a moderate amount of preliminary hypnotic, local angothetic and nitrous oxide or ethylene sufficient ether should be given to produce the desired result

If carbon dio ude is used, it is probable that much larger preliminary doses of morphine can be sixen with safety because respiration can be readily con trolled and the rate of absorption of ether during the operation and of its elimination after operation can be hastened Carbon dioxide is especially useful when nitrous oxide or ethylene is being administered to children because their respirations are normally

upreliable

Local an esthesia is recommended for the extrac tion of teeth operations on the eye no e throat, and brain and for bernia. It can be used with particular advantage for larvngectomy meal operations especially hamorrhoidectomy and for operations on or through the adult urmary bladder certain forms of local an esthesia can be em ploved advantageously

The average goster operation is facilitated by the induction of light general anæsthesia in addition to local anæsthesia Radical amputation of the breast is best performed under general anasthesia best combination of anæsthetics for thoracoplasty and various types of intra abdominal operations is detailed

The advantages and disadvantages of local infiltration and of regional an esthesia are discussed Regional anæsthesia has certain disadvantages its induction is frequently slow, reactions sometimes occur, and little hamostasis is produced. It can often be advantageously combined with local infiltration

The dosage of novocain and epinephrin depends upon the weight age blood pressure and pulse rate since these have a profound effect on the patient's tolerance The author gives a general formula illus trated by examples in which these special factors vary The degree of untoward reaction to novocain varies directly with the rate of absorption of the drug hence more of the drug can be given in dilute solution than in a concentrated solution The author employs about 5 mm of a 1 1 000 solution of adre

nalin chloride to each 100 c cm of novocain solution unless he has reason to believe that its use is contraindicated by the patient's general condition or by an untoward reaction to the first part of the injection

Lundy J S Pulmonary Complications Following Ether and Ethylene Ether Anasthesia Med J & Rec. 1926 etws 87

In order to compare ethylene ether and ether in their effect on the incidence of postoperative pul monary complications and the mortality Lundy re ports the results of two parallel series of 600 case

each
Tor every operation performed under ethylene
ether anasthesia a corresponding operation was
performed under ether anasthesia the conditions
with regard to site date and meteorological factors being identical. There were 560 cases of
duodenal uter half in each series sixty six cases
of gastine uter and 574 cases of choleevisitis 344
with stones and 330 without.

The most favorable results from the viewpoint of anosthe in postoperative pulmonary complications and mortality were secured in the cases of gastre ulcer when ethylene ether was used and in the cases of cholecystitus when ether was given.

The best results from the viewpoint of anæsthesia and the incidence of postoperative pneumonia in cases of duodenal ulcer followed the pre operative

administration of morphine and atropine and the use of ethylene ether anasthesia

Anesthesia was satisfactory in 85 per cent of the cises on the verage. The relative percentages in the ethylene ether group and the ether group varied in the different operations. It must be borne in mind that the choice of anasthetic depended to a varying degree on the condition of the patient and the personal preferences of the surgeon. Other fix cross besides the arraythetic some of them doubtless unknown affected the incidence of pulmonary complications and the mortality.

Since the percentage of other required in the differ ent operations varied so widely it is impossible to draw general conclusions regarding the comparative value of the two types of anaesthetic or the effect of the pre-operative administration of hypnotics What is proved in one type of operation is disproved in another The absence of bronchopneumonia follow ing operations in the large series of cases of duodenal ulcer and the smaller series of cases of gastric ulcer under ethylene ether without preliminary medica tion is no criterion for the e tablishment of such a routine in surgery of the upper abdomen. The figures for operations on gastric ulcer under ethylene ether anysthesia show that bronchopneumonia did not follow in any case regardless of the institution and type of pre-operative medication Preferences must be limited by the type of operation and no generali zations can be made

# PHYSICOCHEMICAL METHODS IN SURGERY

#### ROENTGENOLOGY

Hueck H Irradiation Treatment of Sarcoma (Zur Strahlenbehandlung der Sarkome) 1rch f Llin Chir 1926, CXXXIX 607

The histological character of connective tissue tumors is not a definite criterion of the reaction of such tumors to irradiation. Sarcoma of the young cell type is usually influenced relatively favorably. whereas tumors of a more highly differentiated cell

structure are more resistant

In the period from 1920 to 1925, more than 100 cases of sarcoma were treated at the Rostock Clinic The author's study is hased on fifty five of these In ten, only Y ray treatment was given, in twenty four the X ray treatment was preceded by an in complete operation consisting usually of the excision of a specimen for diagnosis, and in fifteen it was preceded hy a radical operation. There were six patients who came for the treatment of a metastasis following a radical operation

The treatment consisted as a rule of three or four exposures in each of which from 80 to 100 per cent of the skin erythema dose was applied directly to the tumor In the cases of easily reacting tumors smaller doses were given at more frequent intervals

There were no hurns

Thirty three of the fifty five patients have already died and three have recurrences Eight of the re maining nineteen have no recurrence as yet hut as they have been under observation for only a vear and a half at the longest they cannot be considered in judging the value of the treatment. In cleven cases ("o per cent) a good result has been obtained for a period ranging from two to five years

The time of the reaction to the irradiation was extremely variable. Lymphosarcoma reacted most quickly, but the ultimate results in these cases were not at all favorable As a good result was apparent in myelogenous sarcoma of the epulis type the author is of the opinion that irradiation treatment is justifiable in these cases to avoid a mutilating operation With regard to the other types the author says that the surgeons of the Rostock Chaic, recognizing the uncertainty of irradiation prefer to deal with operable sarcomata by excision Discri (Z)

Mattick W L Some Practical Considerations in the Application of Deep Roentgen Therapy to the Treatment of Malignant Disease Radiology 19 6 vn r

This is a description of the methods found to be of practical value in the treatment of malignant

disease at the State Institute at Buffalo, New York Brief consideration is given to the theories of the action of radiotherapy and to some of its known effects in ammal tissue and in the human or

The author regards the gamma ray of radium and the roengten ray as practically the same in proper ties and action and uses them more or less inter changeably or in combination. He helieves it is essential to work with isodose curves for all deep roentgen ray treatment and also in the use of all

types of radium containers and packs In the technique of deep roentgen therapy, a kilovoltage of 200 ky, a filtration of 0.5 mm of copper and a milhamperage of either S or 30 are constant factors The dosage is varied by varying the time and skin target distance to suit the regin e ments of the particular case. The treatments are usually given in divided doses. In order to reduce irradiation sickness to the minimum it is important to use as small a field and as short an exposure

time as are consistent with good results

The methods used are classified into (1) those of value for lesions at or near the surface and (2) those of value for lesions in the interior of the hody The first are used for lesions requiring moderate or light dosage which can he given in single fields The method employed in treating mammary car cinoma is described in detail. For irradiation of the cervix the hody of the uterus the rectum, the prostate. the hiadder the vagina, etc , cross firing through two opposite parallel fields is done and radium is applied locally hy seeds or tubes, or both

The article includes dosage tables devised to sim-plify the measurement of dosage in the treatment of two opposite parallel fields by the cross fire When it is necessary to employ more than two fields in cross firing measurements should be made with the isodose curves or the field selector of Holfelder applied to an exact diagram of the part

that is to be treated

Among the special methods that have proved of value are the three triangular fields method for the irradiation of localized tumors 2 or 3 cm under the surface of the skin and the triangular box method which is especially valuable for tumors about the knee and ankle joints The latter and a method used in the treatment of carcinoma of the pylorus are described briefly

The results obtained in a large variety of cases are summarized In conclusion the author states that only 30 per cent of cases of malignancy could be treated satisfactorily by radiotherapy
ADOLPH HARTUNG M D

# MISCELLANEOUS

ranidly

### CLINICAL ENTITIES-GENERAL PHYSIO LOGICAL CONDITIONS

Biotner II and Fitz R On Diabetic Gangrene with Particular Reference to the Value of Insulin in Its Treatment Boston If & S J 1926 CKEN 1155

The authors report a clinical study of diabetic gangrene in sixty nine cases observed at the Peter Bent Brigham Hospital Boston In their expe rience gangrene has been a relatively frequent com plication of diabetes occurring in 7 per cent of the cases

Gangrene usually depends upon obliterative vascular lesions in the extremities of elderly persons suffering from diabetes with superimposed infection thrombosis or osteom elitis but it may occur also in young person with essentially normal blood vessels and it may be of infectious origin attack does not provent subsequent attacks

The underlying gruss of the pregular disea e en countered in the majority of cases of diabetic gan grene is unknown. In the cases reviewed by the authors syphilis we of little importance as an etiological factor and the relation of the biochemical changes in diabetes to the development of arterio sciero is was a matter of speculation

In 65 per cent of the cases transma was the im mediate cruse of the gangrene I requently this was of a very monor nature. The cases in which the condition developed during the winter were more numerous than those in which it developed during the summer I we patients developed gangrene while at rest and under observation in the hospital Minor injuries told weather and lack of exercise therefore seemed to be important factors in the

Diabetic gangrene has a notably high death rate Twenty three per cent of the nationts studied by the authors hed while they were under treatment in the hospital. The most important immediate cause of death was infection. It times an overwhelming general infection developed from a small local lesion Other less important causes of death were shock or unavoidable vascular accidents

precuntation of the gangrene

Gangrene is often a preventable complication of diabetes. The avoidance of dirt of minor injuries of chilling of the hands and feet and of a too edentary

life are important prophylactic measures The treatment of gangrene consists in the employ ment of medical or surrical measures. On the whole the authors experience with medical treatment has been disappointing but in a few cases with very superficial and small gangrenous areas the condition cleared up under diet rest and various forms of nhysiotherapy

The authors have been particularly interested in the effect of insulin upon the surgical treatment of diabetic gangrene. Up to October 1922 when insulin was first used in the Peter Bent Brigham Hospital the mortality in cases of gangrene was 25 per cent while since that date it has been reduced to xS per cent

From a comparison of cases of diabetic gangrene treated surgically with and without insulin it appears that the use of insulin rapidly desugarizes patients before operation and renders it possible to give them a liberal diet during the period of con valescence from operation Before the days of insulin some nationts died in coma whereas others were forced to undergo prolonged periods of mal nutrition in preparation for operation and during convalescence and as a result suffered progressive loss of weight and strength became unresistant to infection and finally required repeated operations and ded after a protracted illness. Since the use of ensulin nationts are made free from acidosis and prepared for operation in a few hours and shortly after operation are able to eat an adequate diet a

re ist infection and recover from their illness In conclusion the authors state that the proper use of insulin in the treatment of diabetic gangreness as important as is the proper use of insulin in the treatment of diabetic com

the result of which they gain weight and strength

CYRYL J GLASTEL M D

#### Minot G R Lymphoblastoma Radiology 1926 VII 110

This article summarizes the data presented in two previous articles on 477 cases of various types of lymphoblastoma exclusive of lymphatic leukamia which were studied at the Huntington Memorial Hospital Boston The incidence of the disease as regards age and sev its duration and the effect upon it of rountgen ray and radium irradiation and surgery were considered

The condition began most frequently between the ages of 20 and 24 years and next most frequently between the ages of 35 and 30 years The majority of the patients were males. The duration of the condition was longer in females than in males and did not seem to be greatly affected by irradiation In some cases surgery had a beneficial effect, partic ularly if it was thorough employed early and fol loned by mradiation

Four hundred and one of the patients died after an average duration of the condition of 2 76 years About to per cent of both those who were irradiated and those who were not irradiated had the disease for six years or longer A greater percentage of the seventy six living patients have had lymphoblas toma for this length of time and a greater percent age of these than of those who died had surgical and early tradiation treatment

Irradiation is undoubtedly of great value in lymphoblastoma, in spite of the fact that it does not appear to have a notable influence on the duration of the disease, it alleviates the symptoms, decreases the size of the lesions, and improves the patient's efficiency

In many of the cases observed abdominal disturbances were the initial symptoms or developed early in the course of the condition. Late in the disease such symptoms occurred with very great frequency. After their development the prognoss for long duration of life hecomes less favorable.

ADOLPH HARTUNG M D

Desjardins A U Radiotherapy for Lympho blastoma Radiology 1926, vit 1-1

In a study of seventy three cases of Hodgkn's disease and fifty, five cases of lymphosarcoma made in 1923 it was found that the average duration of these diseases when untreated was two years and seven months and two years and five and one half months respectively. Granting that at hest, such a determination can be only approximate it never theless suggests a close relation hetween these two conditions.

In this article the author reviews fifty seven cases of Hodgkin's disease and 126 of lymphosarcoma which were treated at the Mayo Clinic in the period from 1920 to 1923 inclusive As in the former group the diagnosis was confirmed by microscopic exami nation of the tissue The histories and the findings of examination paralleled closely those of the previ ous series The average duration of the disease was three years and two months in the cases of Hody kin's disease and two years and four months in those of lymphosarcoma As most of the cases bad been treated more or less systematically hy radiotherapy it appears that radium and roentgen ray treatment usually do not prolong life to a notable degree, although in individual instances a marked effect un doubtedly was to be attributed to such treatment The prolongation of life in the Hodgkin's group was probably more apparent than real and due to the fact that this study was made after a shorter follow up period The amount of treatment given each patient may also affect the result of such a survey materially A later study is contemplated which will consider the factors of the amount and kind of treat

From the results of this study the conclusion is drawn that while life is definitely prolonged in individual cases radiotherapy does not notably prolong the average life expectancy of patients suffering from lymphoblastoma, but is able to control many of the distressing clinical manifestations so that the patient may be maintained in a relatively normal state of bealth for long periods during the course of the discase Lumsden T Immunity in Relation to Trans plantable Malignant Tumors Lancet 19 6 ccxi 112

In fity rats with a J R sarcoma in each hind foot one foot was injected with anti J R S serum in three doses of 0 g c cm each, the circulation in the foot being coincidentally shut off by constriction at the ankle for from two to three hours. In all of these animals the tumor of the treated foot disappeared rapidly, while in thirty seven regression began also in the untreated foot from seven to ten days later and went on to complete cure. After the cure these rats were found to be absolutely immune to the tumor concerned and the immunity was of long duration. It appears that in order to effect a cure and evoke immunity gradual regression of the treated tumor is essential.

There has been considerable difficulty in obtaining human cancer in a condition which admits of its culture, but certain in the observations suggest that cancer cells may have some ability to adapt themselves to repeated applications of antisera and to other adverse conditions. Although the findings made in ithm suggest that anti-human cancer serum would he an ideal cure for mouse cancer, it does not act as such when it is injected into the tail vein of a cancerous mouse

As it was observed that both of two co existing tumors regressed when only one was treated, it appeared possible that products absorbed from the treated tumor gave rise to antihodies in the host which caused the subsequent absorption of the un treated tumor To determine whether this was true the serum of immune and later of 'hyper immunized 'rats was applied to JRS cells cultured in titro The IRS cells so fed continued to grow as freely as ever, even when abundance of complement was present. There heing thus no evidence of antibodies in the serum, an extract of many of the tissues of a hyperimmunized rat was then added to the rat's serum, but again there was no injury to the cultured J R S cells even though the rat from which these fluids had been taken was completely resistant to JRS Accordingly, it was clear that there must be some fundamental difference between this "hom ologous immunity of an animal to a tumor of its own species and the heterologous" immunity evoked in a different species, for example, by inject ing JRS cells into a rahhit sheep, or horse

Since no evidence indicating the nature of its immunity could be found in the blood or tissues of a 'hyperimmunized' rat, the possibility that its resistance was of nervous origin was considered. The fact that not only the veins leaving a tumor but also the arteries going to it are enlarged strongly suggests the action of a nerve reflex.

The e observations indicate that when a carcinoma is injected into a heterologous animal it calls forth at least two varieties of antibodies (r) anti-carcinoma antibodies and (a) antibodies to the group of animals from which the antigenic cancer was taken Malignant cells appear to have a special liability to

antibodies of almost any sort for they are even more susceptible to a pure anti rat serum than the anti

genic rat normal tissues

The mechanism of acquired immunity to a homol ogous tumor is still obscure but there is reason to hold that it is not brought about by means of antibodies such as are found in the serum of an animal into which heterologous tumor cells have been in

The possibility that acquired immunity consists in the desensitization of some nervous mechanism cannot be ruled out entirely but no experimental evidence in favor of this hypothesis has been pro duced MORRIS II LAH M D

Young J The Earlier Recognition of Cancer Edinburgh M J 1926 n s vvnn Med Chir Soc Edinburgh 117

This article is in the main a plea to the members of the medical profession of Great Britain for propaganda to educate the public in the earlier recognition of cancer

Young states that statistical study of the after results of cancer treatment finds few adequate rec ords in Great Britain He believes that this differ ence of hospital routine is one of the reasons why the urgent need for cancer propaganda is less acutely realized in the British Isles than in America and on the Continent Attention is called to the fact that the more

favorable prognosis of accessible cancer as compared with inaccessible cancer is due in large part to easier recognition of the former Although the results ob tained in breast cancer are handicapped by a disease duration of more than one year in over 40 per cent of the cases nearly balf of the patients survive for three years and one third survive for five years after operation

Carcinoma of the female generative organs is responsible for about 6 000 deaths skin cancer for about 2 000 deaths and cancer of the buccal cavity for about 3 000 deaths yearly in Great Britain

In conclusion Young states that there is now ample evidence that the aims of propaganda are being whieved in America and on the Continent as cases are coming under treatment at an appreciably earlier tage than formerly Jacob S Grove M D

Fowler L H Malignant Epithelial Neoplasms Carcinoma and Epithelioma Occurring in Persons Under 26 Years of Age Surg Gynec & Obsi 19 6 xlm 72

Carcinoma is much more common in youth than is generally recognized. The author reviews 112 cases of pathologically demonstrated carcinoma and epithelioma in patients under 26 years of age who were operated on at the Mayo Chric between Janu ary 1914 and January 19 4 There were eighty nine cases of carcinoma and twenty three of epi thehoma Only purely epithelial tumors are in cluded The youngest patient was 1 year of age The total known mortality was more than 50 per cent Eighteen and seven tenths per cent of the patients could not be traced. Only 14 2 per cent were abve more than three years after the operation Heredity is considered to be the most important

etiological factor in carcinoma of the young

The pathology of the neoplasms varied in the different organs. The cells showed different degrees of differentiation The large undifferentiated cells with large oval or round nuclei and deeply staining nuclcoli (one eyed cells) predominated Lack of hyahnization fibrosis lymphocytic infiltration and cellular differentiation may have been responsible for the greater malignancy of these neoplasms in the young as compared with those in older subjects

Nearly every organ in the body has been the site of carcinoma in the young. The rectum and overy were most ferquently involved (fourteen cases each 12 5 per cent) The highest known mortality (85 7 per cent) occurred in the cases of carcinoma of the rectum No patient with this condition was known to be hving longer than one year The other organs were involved as follows the stomach in nine cases (8 per cent) the thyroid breast and kidney in seven cases each (each 6 5 per cent) the te ticle lip and cervit in five cases each (each 4 4 per cent) and miscellaneous organs in thirty nine cases (3, 8 per cent) Anæmia is a prominent feature of carci noma of the right half of the colon in youth as it is in the same condition in adult life

Involvement of the neighboring lymph nodes in carcinoma of the breast and large intestine in youth reduces postoperative life and increases the ultimate mortality In youth carcinoma in the thyroid is usually found by the pathologist and not by the surgeon it is intracapsular and its mortality is low

Broders classification and grading of epithelioma is applicable in youth as well as in adult life. Sev enty two and six tenths per cent of epitheliomata in youth belong to the more malignant groups (Grades 3 and 4)

### SURGICAL PATHOLOGY AND DIAGNOSIS

Nasaroff W M The Healing of Skin Wounds (Ueber die Heilung von Hautwunden) I erhandl d to russ Chir Kong Moscow 1025 p 114

In all types of healing of skin wounds there are regenerative and degenerative processes to be dif-ferentiated During the first forty eight hours the well known morphological processes are influenced by ferments According to Gaza these are of three types the autolytic the heterolytic and the histo I tic They produce tumescence and liquefaction of the fibrils of the fibrin and of the paraplastic ele

As early as six hours after the injury the author was able to observe the appearance of small thin fibrils at the borders of the extravasated blood and the tissue which remained normal These stain dif ferently from fibrin with the Mallory stain Nasaroff believes they are pre-collagen fibers which are formed without the action of fibroblasts as the result of the presence next to each other of two different alhumi nous substances Later they are acted upon by the

fibroblasts and become sborter

Nasaroff reviews the work he did in 1923 upon the regeneration of the nervous ends in cultureous sears in man. In an aseptic wound the regeneration of nerves can be seen after one week, and after from them to the whent, five days the epithelium is reached by the growing nerve fibers. In old scars, nerve end ings of the most varying types are to be seen and sometimes even deformed Messner corpuscles. The Vater Pacini corpuscles, faitly tissue, hairs and glands do not seem to regenerate. Glands can regenerate only when the exertory duct alone has been injured.

Girgolaff, S. S. New Findings with Regard to Wound Healing (Neuere Ergebnisse ueber Wund heilung) Verhandl d 16 russ Chir Kong Moscow, 1925 p 118

The author reviews the findings of studies made by himself and his students on wound healing which he classes with the inflammatory processes. Three periods are to be distinguished. The first or preparatory period is that in which the trauma the solution of continuity of the tissues, the injury of the nerve fibers, and the coagulation of the extra asated blood and lymph occur. In this period two zones may be distinguished, the zone of passive destruction with

fermentative processes, and the zone of active re-

The second period, which begins a few hours after the first may be called the first stage of regeneration. It is characterized by an increased by drogen ion concentration i.e. a local acidosis. The author measured this acidosis in aseptic wounds. It begins very suddenly increases for forty eight bours and then decreases so slowly that fourteen days after the injury conditions in the scar are not yet normal. To this first stage of regeneration belong the appear ance of mesodermal elements the new formation of the capillaries, and the formation of precollagemous and collagenous fibers.

In the thard period, the period of true scar regeneration the local wound reaction again becomes weakly alkaline and contraction of the scar occurs. At the same time there may be demonstrated the processes of the second stage of regeneration. To this stage belongs the ristoration of function. The collagenous fibers as well as the elastic fibers reach their full development, the vascular system becomes organized, and the scar becomes penetrated by elements of the peripheral nervous system, a process of great importance for function. Only when there is complete restoration of the relation of the part to the organism by means of the nerves can the healing process be regarded as entirely complete.

LORVMANN (Z)

# BIBLIOGRAPHY of CURRENT LITERATURE

NOTE - THE BOLD FACE LIGURES IN BRACKETS AT THE PIGHT OF A REFERENCE INDICATE THE PAGE OF THIS INSUF ON WHICH AN ABSTRACT OF THE ARTICLE REFERRED TO MAY BE FOUND

### SURGERY OF THE HEAD AND NECK

Handbook of practical surgery E voy Berghann P YON BURNS and J YON MINULICE Ed by C Garre Il Kuettner and E Lever I Surgery of the head 1926 Stuttgart Enke

The treatment of head injuries D J ARMOUR Prac titioner 1926 CTVII 69

The treatment of head injuries W I MIXTER I Nat M Ass 1926 TVIII 119

The results of plastic operations on the skull E SEIFERT Arch f orthop u Unfall Chir 1926 xxxx 119 Two cases of thrombophlebitis of the cavernous sinuses in the course of mea les E CAPRARIO An Fac de med

Univ de Montevideo 1926 vi 254 Lateral sinus phlef iti V K HART South M & S

1926 ltttvul 5 0

A case of symptomicss middle meningeal hamorrhage M Ervoy Canadian M Ass J 1926 vvi 937 Temporo occipital botry omy coma I Orazo Bol Soc de cirug de Chile 1926 iv 10,

Traumatic cysts of the face P Manage Beste z path \nat u z alig Path 19 3 lvuv 3
Some facial dishgurements C A McWilliams Am

I butg to 6 n s i 6

General and pecial urvery of the head with particular reference to the face the jaws and the oral cauty F Bon CHER 1026 Berlin Springer Plastic repur of facial defects 1 h Mulley North

west Viet 19 6 Ext 408 Plastic urgery faciomavillary J H HARTER North

west Med 1) 6 774 404 Surgical mumps R B STEWART J Kansas M Soc

19 6 XX11 55 The question of post perative paroutis its etiology and puthogeness Weinster Med Klin 10 0 vsu 215 Late reformation of a mixed tumor of the parotid R PNEMA Ann ital dischir 10 6 V 5
Turnors of the sulvary glands K Michel Arch [

klin Chir 10 0 cyl Spontaneous extru ion of a salivary calculus E Uxper

nn.r. J Roy Army Mc1 (orps 1 and 1926 xlvn 135 Radio active sul tances their therapeutic u es and ap plications radiation of cancer of the cheek J Muin Radiology 10 6 vii 131

A ca e of permanent on triction of the pans De Har VEN J de chir et ann Soc belge de chir 1026 xxx TTXIII 5

Is there a true central abroma of the paw? \ KROGIUS Zentralbl f Chir 19 0 lin 386

#### Lie

Memories of Vienna clinics | Tucus | 1m J Ophth 1926 3 5 1x 605

Tytex-ocular foreign bodies C Cires. N Orleans M \$5 I 10 6 lyur 110

Chronic poisoning with thallium and ocular changes L Mayott Sperimentale 1926 lxxx 228 Intra-ocular manifestations of systemic di ease W S

Sins A Orleans M & S J 10 6 lexix 10

Kaynaud's disea e with ocular complications S J

Appeliant and M L Jerner Am J Ophth 1026

3 s 17 560
The value of a field of vision in the diagno is of eye

di case \(^1\) H Bowman \(^1\) Tas State J \(^1\) 1702 \(^2\) Total Color acunty recent studies with the test \(^1\) I Firown \(^1\) Orleans M \(^2\) S \(^1\) 1703 \(^1\) twize 127

\[ \quad \quad \text{Monocular color blindness} \quad \(^1\) F Bonner \(^1\) Am \(^1\)

Ophth 1926 3 5 1x 603

Padium therapy in diseases of the eye and adnesa G A Postson Arch Ophth 19 6 ls 328

1 reliminary examinations before major operations upon the eye R H T Many South M J 1926 vix 648 A case of congenital piosis Young's operation MACCALLAN I roc I oy Soc Med Lond 1926 tix Sect Ophth 40

The technique of the total ectropion operation E L LERNOV Am J Ophth 1926 3 8 1x 598 I lastic operation with prosthesis for an extensive sym

blepharon J Ltjó Pavla Rev especialidades Asoc med argent 1926 1 75 Trachoma J W May J Kansas W Soc 1926 vxvi

Is trachoma a deficiency disea e? In hypothesis for public health con ideration B I POYER J Am M

les to 6 letten 48 Tertiary syphilis of the eyelid E S CONNELL Am J Ophth 1926 3 s tv 60% In unusual sarcoma of the eyelid J Lijo Parta F

BELGERI and VI DESSELDORP Res e pecialidades \soc méd argent 1926 1 52

Peport of an mjury to the eyeball of a child due to a broken doll head G B CARR Kentucky M J 19 6 TXIV 357

Vertical mystagmus with fixation phenomena O C Perkins 1m J Ophth 19 6 35 iv 588

Certain a pects of glaucoma W F HARDY Am J Ophth 1026 3 S 17 503

A method for the enucleation of the eyeball I KRAUSS Am J Ophth 1926 3 S 18 591
Ocular torticollis I C Doyne Proc Roy Soc Med

Lond 1026 TIT Sect Ophth 42 A lesion of the inferior rectus treatment result M M

CRUICASHANA Indian M Gaz 10 5 lti 380 Convergent strabismus changed to divergent without operative interference G H MATHERSON Am J Ophth 1920 3 s 1x 608

The surgical treatment of squint J W LOWELL Am J Ophth 1026 3 s 17 600

Tonic spasm of the eyes in conjugate deviation M R LARKAS Lancet 1926 CCV1, 330 Orbital hemotrhage in an infant J GARLANN Boston

M & S J, 19 6 CTC1, 3,6

A cystic pigmented nevus of the conjunctiva | I Life Pavia and M. Dusseldorp. Rev especialidade. A oc. med argent 1026 1 34

The surgical treatment of pterygium D Bern's cont CRAMER Key especialidades Asoc med argent, 10 6

Report of a case of neurochoroiditis with pituitary in sufficiency probably due to inherited syphilis H L Hil CARTNER and J S LANKFORD Texas State J M 1926,

Metastatic carcinoma of the choroid with the report of two cases four eyes C 1 CLAPP Am J Ophth 19 6 [447]

Lineal superficial and alphabetic keratitis LA RRIÉRE Rev especialidades Asoc med argent 19 6 1 1 Vessels of the new formation on the anterior surface of the iris emerging from the pupil and branching outward R BATTEN Proc Roy Soc Med Lond 19 6 tex Sect

I new method for coloring the nerve fibers of the iris Il Balado Rev especialidades Asoc méd argent

1926 1 60

Studies on the peripheral relations of the musculus dila tator pupille I O BERNER Brit J Ophth 19 0 x 4 0 Failure of pupillary reaction to convergence in cerebral hypertension I Adrogue Rev especialidades Asoc med argent 10 6 1 44

Siderosis of the crystalline lens G N BRAZEAU Am J Ophth 1916 3 s 17 609

Saleguards in cataract expression J GREEN J Am M

A = 1926 IXXXVII 39
Air bubbles in the vitreous K I Moore But J

Ophth 1926 7 418 The etiology prognosis and treatment of the recurring hamorrhages of the vitreous R ARGMARAZ Rev es

pecialidades 1soc mid argent 19 6 1 15 New vessel formation in the vitreous H W Scirlett Am J Ophth 196381x51 [447] New formed vessels in the vitreous of specific origin with

the report of a case with drawings C A CLAPP But J Ophth 196 x 435

Angioscotometry J N Evans Am J Ophth 196

3 5 IX 480 [447] The blood pressure in the capillaries of the retina L

LIDI and E ADROGUÉ Semana med, 19 6 XXXIII 223 A discus ion of the structure of the neuro epithehal layer of the retina E P FORTIN Rev Soc argent de biol 19 6 11 183

A case of re attachment of the retina after spontaneous detachment and operation A F MacCallan Proc Roy Soc Med Lond 1926 viv Sect Ophth, 39

An intra-ocular neoformation simulating a glioma of the retina S GABARD Rev especialidades Asoc méd argent 1926 1 23

Clinical observations on the use of the audiometer in testing the hearing W NEMZEK and H HAYS Laryn goscope 1926 TXXVI 563 The audio controller O C SMITH and G E SHAM

Butten Arch Otolaryngol 1926 iv 160 Disturbance of hearing due to traumatism J C SCAL

Laryngoscope 19 6 vexv1 558 Reactions induced through the ductus endolymphaticus and the aqueductus cochlee L M HUBBY Arch Oto laryngol 19 6 iv 137

Handbook of throat nose and ear diseases A DINKER and O KAHLER 1926 Berlin Springer 1926 Munich Bergmann

The problem of the acute ear T R RODGER Canadian M Ass J 1926 VV1 903

H emorrhagic types of ear di ease occurring during epi demics of influenza Sir W Milligan J Laryngol & Otol 19 6 th 493

Acute otitis media in adults L K Pitman Larvn goscope 1926 TXXVI 600

Gradenigo's syndrome H G LSTCOURT J Laryngol & Otol 19 6 xh, 490

Acute middle car suppuration (left) the Gradenigo radrome operation recovery W T GARDINER J

syndrome operation recovery Laryngol & Otol 1926 vli 52 Acute suppurative otitis media (left) the Gradenigo

syndrome acute leptomeningitis death G E MARTIN J Laryngol & Otol 1926 vli, 525 Demonstration of a new instrument for the treatment

of OMCC with overheated Bir J GUTTMAN Laryn gostope 1026 \*\*\*\* 508 Acquired syphilis of the acoustic and static labyrinth

P L TRRECART Rev especialidades, Asoc méd argent 10 6 1 151 Surgery of the labyrinth diffuse pronounced suppurative

labyrinthitis J Basavilbaso Rev e pecialidades Asoc méd argent 1926 1 171 Bacillus subtilis in pure culture complicating mastoiditis and meningitis D D SANDERSON Nebraska State M J

19 6 71 318 The value of rountgenography in the diagnosis of mas touchtis Stné and Medan Rev méd de Barcelona 1026

#### Nose and Sinuses

Rhinoplasty by means of forehead flaps Pertiles 50 Tag d deutsch Ges f Chir Berlin 1926

A case of cerebrospinal rhinorrhoea SIR J BARRETT Med I Australia 10 6 ii 182

Some observations on lymphoid tissue in the nasophar yny J T KING J Med Ass Georgia 1926 vv 306 The superior cervical sympathetic ganglion syndrome

F C I ALMER Laryngoscope 10 6 xxvvi 580
Familiał epistaxis L Blumenfeld Laryngoscope

19 6 XXXVI 573 Submucous resection of the nasal septum I L WAH REP J Iowa State M Soc 1920 TVI 371

The mucin content of nasal polyps a histological and clinical study M Manconi Studi sassaresi Sassari

1026 11 00 Suppuration in the ethmoidal and sphenoidal sinuses cavernous sinus thrombosis death autops; A L TURNER

and I E REYNOLDS J Laryngol & Otol 19 6 xl1 442 Iodized oil (hpiodol) in otolaryngological diagnosis-

opaque injection study of thirty five maxillary sinu es R H Fraser J Michigan State M Soc 19 6 xxv 270

The pathology and treatment of inflammatory diseases of the accessory nasal sinuses M Hajea 1926 Leipzig Deuticke

The treatment of sinusitis, heliotherapy in chronic si musitis G Dore Studi sassaresi Sassari 19 6 il 55

A simple nasal suction douche A J Shekter larvn goscope 19 6 xxxv1 596 The surgical treatment of acute suppurative paranasal

sinusitis I J Shea J Am M Ass 1926 Ixxxvii, 162 Frontal sinus and mastoid technique E C JERMAN

Radiology, 1926 vii 164

The surgical approach to the ethmoidal cell system J B Horgon J Laryngol & Otol 1726 th 510 Malignant new growths of the accessory masal snuises in youth N HATA Bett z Anat Physiol Path u Therap d Ohres (etc.) 1723, Xur 2004

#### Mouth

A ca e of left sided complete harelip and clelt palate
A BERG Arch I klin Chir 19 6 cvl 168

The danger of sepsis about the lips Sir W I neC WHEELER In h J M Sc 1926 p 309
An abnormal epithelial growth of the alteolar process

An abnormal cpithelial growth of the atteorar process

H EULER Beitr 2 klin Chir 19 6 exxxvr 359

The experimental production of an atypical epithelial

growth upon the growing tooth pulp R WEDER Deutsche Monatsschi f Zahnh 1930 the 217 Do epithelal odontomes increase in size by their own tension W W JAMES Froc Roy Soc Utcl Lond 1936 xix Sect Odontol 13

1926 xix Sect Odontol 13

Folkcular odontoma osteomychtis case reporls J C

Bichanan Dental Co mos 19 6 lyvm 803

Radicular cysts I B Dolan Dental Cosmos 1926
lyun 777
Lymphangioma of tongue—report of a case C L

STRUTTH J Michi, an State M Soc 1926 xxv 386

A ca e of leptothrix of the topgue ROEDELIUS Zen
traible f Chir 1926 lin 1284

A ca e of noma of the mouth following mea les M G

Nonawith perforation of the check after mercury in jections fixation of the jaw multiple operations and prosents and Executive Marchael and Darcissae Bull et mem. Soc nat de chir 1926 in 293. Radon in intra-oral cancer \(\Gamma\) I himson and R E

FLESHER J Am M Ass 1026 INVIVIT 655
Surgery of the oral cavits W ADRION and H HOENG
Fortschr d Zahnh 1026 H 1 3

### Pharynx

Int to use tran plantation in the retropharyms in ciclt palate. Now Gaza, so Tag. d. dout th. (cs. 1. Chir Berlin ro. 6.

A septum of the nasopharyneal pace H RYZEJOO, arch internat de laryngol 150 6 vvvn 30f [449]
Bacteramu a sociated with acute hamolytic strepto coccit throat infections H C BALLENGER Arch Oto laryngol 10 6 10 0

Heat control in septi throat cases W F Kernan Clin Med 10.16 valu , 8
Cultures from tonsils C W Pichardson Arch Oto-

Congenital intration illar cysts H Zubizabreta

Semana méd 19 ( vvvii 64

The early treatment of peritonsilliti F HLTTER
Wien klin Wehn chr 19 vvviii 85

A new method of anæsthe ia for openin, pentonsillar abscess ( D H PLE larvingo cope 1926 vaver 57,
A retracting tonsillar tonque depressor T C Days

J Am M \ss 10 6 lxxxvii 408
A new knot tier used in contiolling tonsil harmonihage
C D Render Laryn o cope 1926 xxxvi 604

C D RENDER Laryn o cope 1926 xxxxr 604
The results of tonsil operations a questionnaire report
F J PRATT Arch Otolaryngol 1926 rv 142

r J FRATT Arch (Molaryngol 1926 tv 142

#### Neck

The etiology of wry neck Schubert 50 Tag d deutsch Ges f Chir Berlin ro 6 The etiology and pathogene is of congenital torticollis G Guazzterr Ann rtal di chir 1926 v 547

A case of lymphangioma of the neck. A Buzzr Rev de cirug. Buenos Aires. 1926 v. 283

Observations upon a case of tumor of the carotid gland GOEPEL Zentralbl f Chir 1926 lin 10,4

A film demonstration of the recording of the re piratory metabolism Leschke 50 Tag d deutsch (es f Chi Berlm 1926

The basal metaboli m G Bosco Rev med I at Am 1926 at 1325

The hasal metabolism W G RICHARDS Northwest

Adental contribution to the basal metabolism test J B
WHILMS and W NOLYNG J Lab & Clin Med 19 (

The basal metaboli m in thyroid insufficiency R Cas

internat y Soc de tissol 19 6 n 17,

The effect of a lack of oxygen upon the thyroid gland
W G Detchea Mitt a d Grenzgeb d Med u Chir

Aphonia from gotter with recovery S L Bernstern

J Am M Ass 1926 Textus 561

Gotter in childhood F H M Million Brit M J

1926 11 373

The symptoms of prepuberty struma with microscopic capillary studies K Totto Acta Soc med Fennicæ Duodecim 1026 vii Fasc 2

The re piratory and todine metaboli m in the goiter of

puberty FCKSTEIN Monatsschi I Kinderh 1926
7777 242
Potassium chlorate and congenital goites R K White

Bitt M J 1926 ii 302

The demonstration of the comparative pathology of towland gotter in Danzig FELDYANN 50 Tag d deutsch Ges 1 Chrr Berlin 1926

The genesis of intralary ngotracheal struma R PARPERL
Zischt I Hals \ a en u Ohrenheilk 1926 uv 1/3 [449]
Responsibility for the effects of severe thyroidism I II

Latter \ York State J \ \ 1926 \ xx1 713

Calcification and bone formation in gotter \ \ \ Capor xLi

Inch ital di chir 1926 xv 6 3
Iddine in dysthyroidism a seview W P ADAMS

Virginia VI Month 1916 hii 370
The use of todine in gotter W B Dewik South VI

& S 1026 lvvviii 515
Studies on the basal metabolism in hyperthyroid con dations M Scitters Gart Rev Soc argent de biol

The medical treatment of hyperthyroid m H Suith

J South Carolina W Vs. 19 6 xvii r66
Basedows di ease. A Schimak. Wien klin Wchnschr

19 6 vvvv 382
Exophthalmic gotter in childhood II F Heluholz
J Am M Ass 19 6 lvvvii 15, [450]

Basedows disease and antithyroidin T k Grawitz
Klin Wehnschr 1926 v 140
The elimination of rodine in the urine in normal patients

and in evophthalmic gotter R B CATTELL Boston M
& S J rg 6 evev 69 [459]

The value of rodine rn the suggical treatment of exoph

thalmic gorter E P RICHARDSON Boston M & S 1
19 6 extra xo66

1451

Pre and postoperative jodine treatment of Basedow's disease J MCOLVISEN Deutsche med Wehnschr 1926 in 616

A system of control and treatment in the toxic goiter C H FRAZIER and W B MOSSEr Ann Sure to 6 [451] Operative cases of goiter T M JONCE Northwest

Med 1026, XXV, 423 Cotter from the surgical viewpoint S D Van METER

Colorado Med , 10 6 XVIII 28

The advantages of the primary superior polar attack in the removal of substernal thyroids D GUTHRIE Ann Surg 10 6 IXXXIV. 251

Struma operation without direct ligation of the thyroid

artenes H Doerree Muenchen med Wchn chr 1026 Ixxii 655

The technique of partial thyroidectomy H II SEARLS Surg Gynec & Obst 10 6 vlm 101

Hyperthyroidism persisting after thyroidectomy the

necessity for postoperative examinations in toxic goiters H M CLUTE Surg Chn N Am 19 6 vi 691 The comparative pathology of cancer of the thyroid with a report of primary spontaneous tumors of the thy rold in mice and in a rat M SLYT H F florus and H G Wells J Cancer Research 19 6 x 1/5

Parathyroidectomy and dental calcification D M

Contry key Soc argent de biol 10 6, ii, 160 Chronic tetany in adults and the transplantation of buman parathyroids by the method of Voronoff C I'ru

GONI V SCIMONE and A COMOLLI Presse med 10 6 YXXV1 355 [452] The Atkinson tracheolaryngoscope in examination and

surgery of the larynx J I CALLAHAN Laryngoscope, 10 0 TYTV1 582

Artificial pneumothorax in the treatment of larvageal tuberculosis P Russi Riforma med 1026, xlii 605

Syphilitic laryngeal stenosis cuted for six years by laryngostomy I M Jorge Rev especialidades Asoc

méd argent 10 6 1 148 Bilateral paralysis of the adductors of the vocal cords of organic origin report of a ca e of Landry's paralysis I B MACCREADY Arch Otolaryngol 19 6 19 122

Carcinoma of the larvny G B New Minnesota Med 10 6 TY 365 Carcinoma of the larvny and larvngopharvny treated with radium an analysis of thirty ca e C I IMPERATORI Arch Otolaryngol 10 6 iv 151

### SURGERY OF THE NERVOUS SYSTEM

### Brain and Its Coverings Cranmi Nerves

Two cases of naso eth mordal encephalocele M MRANO Pediat espan 19 6 xx 157

Cramal and intracramal injuries C K P HENT'S Canadian M Ass J 1926 VI 913

Traumatic late apoplery SMIDT 50 Fag d deut ch Ges f Chir Berlin 10 6

The pathogenesis of the epileptic seizure I Georgi Deutsche Ztschr f Nervenh 19 6 lxxxx 1 6

Colloidal chemical studies of the blood serum with refer ence to the pathophysiology of epileptic convulsion M MEYER Deutsche Ztschr f Nervenh 1926 IXXXX 118

A biological reaction to the serum of epileptics O B MEYER Deutsche Zischr f Nervenli 1926 lyxxiv 12, Observations on traumatic epilepsy D GIORDANO

Riforma med 19 6 thi 649

Traumatic epilepsy and its surgical treatment W Rosanot Verhandl d 16 russ Chir Long, Moscow 1925 P 31 [445]

The operative treatment of epilepsy O FOERSTER Deutsche Ztschr f Nervenh 19 6 lxxxx 137

Observations on the operative treatment of epileps; F KRAUSE 50 Tag d deutsch Ges f Chir Berlin 1926 Encephalography with ascending lipiodol M GORTIN and G Saiz Polichin Rome 19 6 vxiii sez med 31 Congenital brain defects a clinic W A Jones J

Lancet 1926 tlv1 352 Hydrocephalus L W Johnson Minnesota Med

19 6 1x 463 A case of hydrocephalus simulating brain tumor A W

Young Canadian M Ass J 19 6 XVI 95
The thalamic syndrome F COSTANTINI Rome, 1926 XXXIII sez med 98

Microscopic lesions of the brain in rabbits injected with streptococci obtained from ca es of encephalitis spasmodic torticollis and poliomyelitis E C Rosewow and M

BALADO Bol inst de clin quir 1926 ii 169 Intracranial complications after peritonsilitis J M

WOODSON South M J 19 6 xix 644

The differential diagnosis of the endocranial complica tions of suppurating otitis media C VILA ABADAL Rev méd de Barcelona 10 6 m 18

The intravenous rajection of gentian violet in chorea and encephalitis Riforma med 10 6 thi 587

Cerebral tumor without hypertention C Trargos Med Ihera 10 6 x 60

Treatment of hypophyseal tumors A N BAKULEN

Arch f klin Chir 19 6 exxxix 679 A parietal pontine glioma of the right cerebral hemi sphere I Giannuli Polichi Rome 1926 xxxiii, sez meil

The diagnosis and treatment of brain tumors W. E. DANDY Deutsche med Wchnschr, 1026 lu 638 The treatment of cerebral tumors R Lozino Rev

ile cirug Buenos Aires 10 6 v 241 One or two stages in operation for brain tumor? N

( ULELE Zentralbl f Chir to 6 lin 8,3 On the effect of liptodol on the meninges A F LIND BLOW Acta radiol 196 v 19 [455]

The treatment of facial neuralgia division of the tri geminal nerve in the posterior cranial fossa P CLAIR arout Deutsche med Wchnschr 1926 hi 609

Resection of the mandibular nerve L GROSS Dental Cosmos, 10°6 laviii 771

The results of hypoglossofacial anastomosis for facial paralysis in two cases A Brown Surg , Gynec & Obst

Resection of the left vagus nerve in the treatment of asthma Riforma med 19 6 xlu 534

Paralysis of the left recurrent laryngeal nerve in asso ciation with mitral stenosis E U WALLERSTEIN VII

ginia M Month 1926 lui 298

### Spinal Cord and Its Coverings

Myelography a radiographic method to demonstrate obstructions of the spinal canal H H REESE Wisconsin M J 19 6 xxv 384

The use of hpiodol in the localization of spinal lesions II The local and systemic effects of the injection of lipiodol mto the subarachnoid space I G EBAUGH and H MELLA Am J M Sc 1926 cfxxxii 117

An unusual case of racemose cysticercus in the spine P VERGA and A DAZZI Policlin Rome 1026 xxxiii sez med 6s

Remarks on so called hour glass tumors of the spinal cord and the vertebra: M BORCHARDY Klin Wchoschr

rg 6 v 636 The syndrome of medullary compression from an endo

I VIALE Rev Soc de med interna y Soc de tisiol 1926 The operative removal of postmeningitic growths of the spinal cord Homenton so Tag d deutsch Ges f Chir

Lerlin 10 6 The experimental basis for chordotomy E A Spiegel Deutsche Zischr f Nervenh 1926 luxux 18

The healing of aseptic wounds of the pinal cord N N SSAMERY Verhandl d 16 russ Chir Kong Moscow [456] 1925 P 117 Contribution upon Loerster's operation O ORIH

Zentralbl f Chir 19 6 hii 599 Demonstration of the surgery of the spinal canal KULENKAMPFF 50 Tag d deutsch Ges f Chir Berlin

#### Peripheral Nerves

The topography of the phrenic nerve under abnormal conditions E RUHESTANN Arch f klin Chir 1926

Brief Lonsiderations on the treatment of sciatica 4 Cassimula and I P Zavatia Rev med d Rosano 1926 TV1 221

Cunshot injurie of the peripheral nerves and their surgi cal treatment S 1 Jacobson Arch f Llin Chir, 1925 C424/11 167

### Sympathetic Nerves

Syncore collapse and hock as related to the sympathet nervous system H COLNEY Muenchen med

Wehnschr to 6 lexus 1 60 14571 The physiology of the sympathetic nervous system in relation to certain surgical problems 1 Formes and 5 CHB J Am M Ass 19 0 1xxxv1 1884

The anatomy of the sympathetic nervous system with reference to suppathectoms and rami ection S W. Risson J Am M lass to t leaves 1880 1458 [458] The que tion of penarterial ampathectoms G M

GURI WITSCH Zentralbl f Chir 10 0 lm , 1 Contribution on periarterial 3mpathestoms SCHMIDIN BIR Beitr z klin Chir 1926 CTTV 675

Periarterial sympathectomy R W McNEAL ۱m M \s 19.6 lxxx1 190% 14581 Sympathectoms in anona pe ton report of cases L'

C (ITLER and J FINE J Am M As 10 6 KYRVI 1072 [458]

The effect of penartenal sympathectomy upon the cir culation of blood J SEBESTYEN D utsche Ztchr f Chir 1025 CXCIU 375

Late result of sympathectomy for vari ose and trophic ulcers of the lower limb I OPAZO Bol Soc de cirug Chile 1926 iv 87

Penartenal sympathectomy particularly in so called pontaneous gangrene (thrombo angutis obliterans) STRADIN Deutsche Ztschr f Chir 1926 cvciv 338

Bilateral exterpation of the upper sympathetic ganglia and penartenal sympathectoms on the carotids in chroni and epidemic encephalitis with the Parkin onian syn drome 1 Okin Ewic and A Auossov Verhandl d 16 russ Chir Long Moscow 1925 p 341

The surgical treatment of bronchial asthma I CREES Zentralbl f Chir 1926 lui 718

The effect of unilateral resection of the superior sym

pathetic trunk upon the condition of the lung in the asth matic attack C Rottoe Arch f Ilm Chir 1926 cxxxix 667 The causes of failures in the operative treatment of

bronchial asthma and their prevention ALEMMELL Sr so Tag d deutsch Ges f Chir Berlin 10 6

The resection of the sympathetic trunk as a therapeutic measure in di cases of the hand and lower extremities T

Osawa Arch f japan Chir 1026 in No r Sympathectomy in Raymaud's disease erythromelalgia and other vascular diseases of the extremities. I Divis and A B LANAVEL Surg Cynec & Obst 1926 vin

The effect of sympathectomy on pastic paralysis of the extremities I DAVIS and A L KANAVEL I Am M Ass 1020 IXXXVI 1800

Clinical observations on the effect of abdominal sym pathectomy upon the patellar and Achilles reflexes \ Aovace Arch f sapan Chir 1926 in No 2

### Miscellaneous

Lumbo acral laminectomy in retention and incontinence of urine due to spina bifida occulta. J. FRANCOIS durol med et chir 1926 xm 161 The cerebro pinal fluid - its history pathways and clin ical values J E DONLEY khode Island M J 1926 it

The analysis of spinal fluid tests J B AYER J Am M

Ass 1026 lvvvu 377

Infection and the nervous system A F O HABERLAND 50 Tag d deutsch Ges f Chir Berlin 10 6 The diagnosis of commotion neurosis HEIDRICH 50 Tag d deutsch Ces f Chir Berlin 1926

## SURGERY OF THE CHEST

### Chest Wall and Breast

A plastic operation in the hest A M Supplex Ann Surg 19 6 liver 240

I ra patory for thoracoply the operations A PLENA and R C Marso v Zentralbi f thir 1926 lm 786 Bifurcate ribs-an unu nal nuse of deformity of the chest M W BLOCKBERG Canadian M Ass J 1926 YV1 907

Gynecomasty 1 Ways Study Sassare 1 Sassari 1926

Gynecomasty and its relation to the general constitu tion I PRANCE Arch I I rauenk u Konstitutions forsch 10 6 xii 63

Hypertrophy of the breast in pregnancy G Atmerica Riv stal di ginec 1926 to 505 A case of diffuse hypertrophy of the breasts N Guosn

Indiao M Gaz 1916 lvi 395

Diseases of the breast A Dietrich and P France

HEIM 1926 Stuttgart I'nke Acute purelent mastitis in a man L TORRACA Ri

forma med 1926 vln 630 Inflammations of the female breast can ed by diphther

old bacilli CLAIRMONT 50 Tag d deutsch Ges f Chir Berlin 1920 The sexual cycle and the growth of tumors of the breast Mosznowicz 50 Tag d deutsch Ges f Chir Berlin

The clinical significance and the pathological basis of so-called bleeding breast S ERDIEUM Arch f Llin Chir 10 6 extxix 366

The que tion of so called bleeding breast E RISAL Wien klin Wchnschr, 19 6 vvvix 544
Paget's disease G Secont Studi sassaresi Sassari,

An unusual localization of metastases of a breast carci noma G REHL Jr Arch f klin Chir 19 6 cxl 3 o

The \ray and metastasis in breast cancer W A COVENTRY Minnesota Med 19 6 17, 316 14621

The extended operation for cancer of the breast E Experies Zentralbl f Chir, 19 6, lin 7 o

### Trachea, Lungs and Pleura

Report on the year's work in endoscopy University Virginia Hospital F D Woodward Virginia M Month

lodized oil in the roentgenological examination of the respiratory tract P OTTONELLO Studi sassaresi Sa san 1926 11

The intratracheal injection of lipiodol H R DEW Med

J Australia 19 6, 11 185

The u e of injected iodized oil in the roentgen ray diag nosts of laryngeal tracheal and bronchopulmonary con ditions S IGLAUER J Am M Ass, 1926 ITTXVI 15,0 14621

Partial tracheal obstruction an experimental study in the effects on the circulation and respiration of morphin ized dogs A BLALOCK T R II ARRISON, and C I WILSON Arch Surg 10 6 viu, 81 [463]

The effect of tracheostenosis upon the cardiac and pul monary circulation Suiger 50 Tag d deutsch Ges i

Chir Berlin 1926

Increased difficulty in the roentgen ray diagnosis of the lungs after operative procedures in the region of the breast A BRUNER Muenchen med Wchnschr 19 5 lxxii or

The phosphoric acid content of the blood in diseases of the lung Vorschuetz 50 Tag d deutsch Ges f Chir

Artificial pneumothorax a review of forty six cases [ B HOBBS and A I G McLAUGHLIN Practitioner 1905 cavii ixi

Artificial pneumothorax in pulmonary tuberculo is P S WINNER Illinois M J 1926 1 138

Division of pleural adhesions in artificial pneumothorax F A ARCE Semana med 1925 xxxiii, 101

The liberation of pleural bands under pleuroscopic con trol during the treatment of tuberculosis by artificial pneumothorax R FRITZ Presse med Par 1906 xxxiv 4631

The pathology of some unusual pulmonary lesions H R Will South M J 1925 viv 591

The relation of mondia to infections of the upper air

assages A J Kotkis M Wachowith and M S PLEISHER Arch Int Med 1926 XXXVIII, 17 Lung abscess J B FLICK Ann Surg 19 6 Ixxxiv

The postoperative pulmonary abscess L Holman

forthwest Med 19 6 xxv 290 [463] Pulmonary abscess C R Castlen Northwest Med 19\_6 xxv, 94 14631

The surgical treatment of lung abscess T W BLSCH MANN Northwest Med 1926, XXV 297 14631 A case of amoebic abscess of the lung G SHANKS

Indian VI Gaz 19 6 lxi, 393

Suffocating pneumothorax from a hydatid cyst of the lung Morelli Rev méd d Uruguay, 1926, vviv, 27

Hydatid cysts of the lung opening into the bronchi and complete pneumothorax I Déve Arch med-chir de l'appar re pir 19 6 1 125

Indications for abstention from operation in the treat ment of hydatid cysts of the lung F Dévé Arch méd

chir de l'appar respir 19 6 1 141

The surgical treatment of hydatid cysts of the lung JEANNE Arch med chir de lappar re pir, 1926 1,

The theoretical basis for the intrabronchial adminis tration of medicaments M SCALITZER

Chir 19 6 cxl 305

The pathology and treatment of bronchiectasis I BRAUER Verhandl d deutsch Gesellsch f inn Med

The treatment of bronchiectasis (permanent cure after partial thoracoplasty with removal of periosteum and in tercostal muscle) J H Zaatjuz Deutsche med Wehnschr jož6 li 674, Primary sclerosis of the pulmonary artery L M Larachi Rev med d Rosarjo 19 6 vil 156 Deutsche med

Experiments with simple and combined ligatures of the pulmonary vessels S Surrior Verhandl d 16 russ

Chir Kong Moscow 19 5 p 38

Primary cancer of the lunes a clinical report of seven teen cases J A Lictur F R Watour and E A Baum Garrier J Im M As 1026 lvtvin 144

The surgery of the lung J T Moransov Brit J Surg

10 6 811 04

Indications for the surgical treatment of diseases of the lung II SCHLESINGER Sonderdruck aus Fortbildungs kurse d Wien med Fak 19 5 xxxii 12 The nerves of the lungs and their significance in surgery

W BRYEUCKER 50 Tag d deutsch Ges f Chir, Berlin

Ludopleural and extrapleural transplants of fixed tissue C CAROSSINI Sperimentale 1926 lvex 1/9

Hemorrhagic pleuris; CHAUFFARD Med Press, 19 6 n s exxu 145 The vaccine treatment of chronic empyema W C

CARROLL Am Med 19 6 VXIII 50, Empyema in children E G ALEXANDER and R L

[465] SHERK Atlantic M J, 1926 XVIX 602 Closed drainage in empyema F W McGurre J Am

M Asy 1926 Exxxvii 66 Aspirating pleura A J DE MARTINI and R S WYVY

Am M Ass 19 6 lxxxvii 660

The results of the operative treatment of acute empyema at the Wladimir Children's Hospital W KRUZKOV Verhandl d 16 russ Chir Kong, Moscow 19 5 14651

The results of the treatment of acute empyema in the Morosov Children's Hospital T KRISNOBIJEV and I FREIOIN Verhandl d 16 russ Chir Kong Moscow 10 5 P 358

Late results in empyema thoracis in children operated on by the author's method A L Sorest Am J Sug 196 ns 1 69

### Heart and Pericardium

Coronary thrombosis with congenital ab ence of the left coronary arters I M SMITH and V C GRABER Arch Int Med 19 6 TITUE 2

Cleft sternum and ectopia cordis Edinhurgh M J 1926 ns vexiu 480

Roentgenological examination of the heart Honges Radiology 19 6 vn 116

Wounds of the heart the technique of suture C S BECK Arch Surg 1926 vm 05

I menmental contribution on the question of the opera tive approach to the heart valves and the auricular eptum.

I P DHITRIEFF Zentralbl f Chir 1926 lm 715 A case of lymphosarcoma involving the right auncle and greater vessels R S STEEL Med J Australia 19 6

n 148

Pericarditis M McC FISCHER Minnesota Med 1926 tx 453

Chronic pericarditis the clinical and experimental as pects J H MUSSER and G R HERRMAN J Am M 155 1026 Texxvu 450

The rationale of therapeutic puncture in pencardial effusions an experimental study C S WILLIAMSON and H N Frs Arch Int Med 1926 TXXVIII 06

An interesting case of obliteration of the pericardium AIRSCHVER and M MATTHES Deutche med

Wehnschr 1926 fn 221 The treatment of obliterative pericarditis and precordial thoracectomy R LERICHE Bull et mêm Soc nat de [466] chir 10 6 ln 118

### Esophagus and Mediastinum

I full upper tooth plate removed from the esophagus G S Mcleyvolds I hm M Ass 19 6 letern 407 Congenital deformity of the traches and exophagus report of case R M Brow I adiology 1026 vii 166

Idiopathie dilatation of the cesophagus M AGRIFOCLIO

Arch ital dichir 1026 Ev 601

Diverticula of the esophagus J Mortes Brit M J [466] 1026 1 031

A case of complete reconstruction of the resophagus by the method of Roux W POROTILO Verhandl d 16 rus Chir Long Moscow 19 5 p 352 The diagnosi of disea es of the resophagus

CLERF Virginia VI Month 19 6 lm 2 9 Iwo cases of deeply situated resophageal carcinoma or cardial carcinoma kleryschutter Zentralbl f Chir

19 6 hn 2077
The treatment of exsophageal cancer Ledoix and

LERON Le cancer 1025 il 137 Primary tumors of the mediastinum and lungs differen tial diagnosis and treatment R E MYERS South M I

1926 XIX 598 A further contribution on the removal of tumors of the posterior mediastmum P Cokk Lis Deutsche Ztschr f

Chir 19 6 exciv 244 Two tumors removed from the posterior mediastinum II BRAUN Bestr z kha Chir 19 6 cxxxvi z

The relation of the thymus to the thymic syndrome M S RELBEN and H R Fox Arch Pediat 1926 vlm 555 Symptoms of enlarged thymus with a report of cases II L. Moore Texas State J M 1926 vm & A case of thymoma J Miller Lanadian M 188 J

19 6 xx1 810
Two cases of thymotherapy F 1 xx1 Rev med d Rosario 1926 TV1 215

#### Miscellaneous

Chylothorax J E INGSTAD J Lancet 10 6 xlv1 3% Malignant metastasis within the thorax C S OARMAN J Indiana State V Ass 1025 xix 303

### SURGERY OF THE ABDOMEN

#### Abdominal Wall and Peritoneum

1 pontaneous hematoma of the abdominal wall 11 Block Doutsche Zischr f Chir 10 6 cxcs 341 spontaneous hæmatoma of the abdominal wall II Wertz Deutsche med Wehn chr 1920 hi 450

I throma of the abdominal wall C lacerro Studi aresi 5assari 1926 ii 68

The relation of subperstoncal fat to abdominal hernia \ ROPDER | Vinnesota Med | 1926 in 441 Tumor metasta is simulating strangulated heima &

HUTTER Ar h f kin Chir 1026 cxl 636 Femoral herma principle and procedure R II RUSSELL

burg Gynec & Ob t 1926 vin 147 An unu ual herma O K HARTRIDGE Med J Austra lia 10 6 11 146

Cangrene of a hermal sac report of a case H T MILLER Am J Surg 10 ( n 1 10)
A hypothe 1 upon the closure of hermal openings during

effort C Punz Rassegna internaz di clin e terap 1926 VII ( Herma ope att in in the light of experimental studies W.

R CHESSIN /cnt albl f Chir 1926 lm 529 The herma operation and the di position to herma I KAZDA Wich med Wehnschr 19 6 Irvi Dio.

A modification of hermotomy in methods involving narrowing of the insuinal canal G M Gurenrisch Zentralbl f Chir 10 6 liu 661

A modification of doubling the aponeurosis in operation for hernia L I MARIANTSCHIL Zentralbi f Chir 19 0 The sensibility of the pentoneum M Kappis Klim

Wchnschr 19 18 2041 2080

Verhandl d 16 ru's Chir Kong Mo cow 1922 p 100 Pneumococcal peritonitis simulating strangulated in

guinal herma H F KINCAID Med I Australia 10 6 11 251 Operative indications in cryptogenetic pneumococcus

perstonitis in children W Bunde Kha Wehnschr 1026

Generalized tuberculous peritonitis acute obstruction operation recovery G W V PARRY But M J 1926 11 255

The treatment of tuberculous pentomits by ether an zesthesia W E Savage Cincinnati J M 1926 VII 348 Curative pneumoperitoneum in exudative tuberculous peritonitis 5 Tremiterra Riforma med 1926 zlu 561 Peritoritis following perforation R Paulini and A Paulini Caz internaz med chir Naples 19 6 p 3 4

The treatment of acute common peritonitis on the bais of seventy cases with sixty five cures L CARDENAL

Deutsche med Wchnschr 1926 ln 630 The value of enterocolostomy combined with entero

tomy in acute pentonitis J W Love Surg Cynec & Obst 1926 xlin 61 Studies on the function of the great omentum and the

entoneum W Goldschuldt and W Schloss Arch f khn Chir 19 6 cvl 542 Mesenteric Lymphadenitis A O WILENSKY and I

HAHY Ann Surg 1926 IXXXII 812 Mesentenal fibroma H BRAUNECK Deut che Ztschr f Chir 1026 CTCV 345

A congenital mixed tumor of the mesentery A Picci NELLI Polichin Rome 1926 txxiii sez chii 322

Two cases of polycystic tumor of the mesenters P loleentoo Policlin Roroe ro 6 xxiii, sez prat 03.
Acase of cystic sarcoma of the mesentery Γ Schuerer WALDHEIM Arch f klin Chir 1926 cvl 601

Suppurative epiploitis apparently secondary to an ulcer of the duodenum and followed by generalized penviscer itis Gouguer De Girac Paris chir, 19 6 xviii 154 Acute omentovolvulus H Koster Am I M Sc. ro 6 clxxii, 230

# Gastro Intestinal Tract

Diverticula of the alimentary tract S M JORDAN and F H I MEY Surg Clin \ \ \ \ 1026 \v1 747 Gastro intestinal cancer diagnosis by radiology

DEVLIN J Med Soc \ Jersey, 1926 Trin 39, The suture material in gastro intestinal surgery

Arce Bol inst de clin quir, rg26 ii r7r Changes in the gastro intestinal tract after operative treatment of the centers of irritation H ANCERER Arch

f Ilin Chir 19 6 CYXXIY 547 The operative treatment of gastroptosis W STENNIER

Zentralbl f Chir 1926 lin 984

Investigations after operation for gastroptosis with sus pension of the stomach by the ligamentum teres hepitis H SCHLOFSMANN and I ROEHRIC Beitr z klin Chir 1926 CTTTV1 (

A case of displiringmatic hernia of the stomach H

Pedro I scudero 1925 p 413 A case of intra abdominal rupture of the stomach of traumatic origin with subsequent perforation Mariantschik Zentralbl f Chir 1926 lin 1050

The chinical physiology of the stomach simultaneous quantitative observations on gastric secretory volume acidity and motility A I BLOOMFIELD and C S LEEFER Arch Int Med 1926 TYXVIII 145

A new method of functional examination of the stomach chemical and roentgenological examination combined T Magrini and J Comas Arch argent de enferm d apar

digest 19 6 1 881 Statistical study of the diagnostic value of hypo acidity II II SAGER and H R HARTYAN Med J & Lec 19 6

cum r36

A statistical study indicating the diagnostic value of perchlo hydria W W SAGER and H R HARTMAN Med J & Rec 19 6 CTTN 197

Diverticulum of the stomach J W THOMSON Brit J Surg 1026 th 180

Diverticulum of the cardia of the storoach I' PEARL STELL Med J & Rec 1926 CTTN 134 Cardiospasm digital divulsion of two cases

PECK Ann Surg 1926 lxxxiv 126 [469] Retention of vegetable material in the stomach report of case L BRYAN J Am M Ass 1926 lxxxvn 397

Acute dilatation of the stomach N W Svell and L H

Savin Lancet 1926 ccm 79
A case of pylonic stenosis after the injection of hydro

chloric acid H OEDING Zentralbl f Chir 19 6 lm 397 Consental hypertrophic stenosis of the pylorus H E HALL Atlantic M J 19 6 TXIX 163

Congenital hypertrophic pyloric stenosis and pyloro spasm from the viewpoint of the roentgenologist W B Right Atlantic M J 1926 xxix 769
Pyloro pasm T Elterich Jr Atlantic M J 1926

Gastro-enteritis followed by pneumococcal peritonitis H

E KINCAID Med J Australia 19 6 11 18 Phlegmon of the stomach V ORATOR Arch f Llin Chir 1926 cxl 3,8

Mulanal gastro enteropathies C B UDAONDO and L V SANGUINETTI Arch argent de enferm d apar digest, 10 6, 1 817

Gastric hamorrhages of obscure origin Y Delore H COMTE and R LABRY Presse med Par 1926 TYTIV 83

Ulcer of the stomach and duodenum E ENDERLIN

lortschr d Therap 19 6 n r37
Gastric and duodenal ulcer frequency number size shape location color sex and age in 7,700 necrops, records at Bellevue Hospital New York M STURTEN ANT and L L SHAPIRO Arch Int Med ro 6 TYXVIII 41 The significance of inflammatory processes in the development of astric and duodenal ulcer H Puil Arch

path Anat 1926 cely r The etiology and pathology of gastric ulcer MILLER Aebraska State M I 10 6 x1 208

The diagnosis of gastric ulcer W Thompson Nebraska State M | 10 6 Tt 300

The laboratory diagnosis of peptic ulcer M J Brever Nebraska State M J 1926 vi 303

The nature of the so called antipepsin of the blood and the diagnostic value of antipepsin investigations in peptic ulcer of the stomach H HILAROWICZ and W MOZCLOWSKI Zentralbl f Chir 10 5 lii 2410

Rountgen ray evidence of gastric ulcer C BALLARD Schraska State M J 1926 vi 305

False niches of Haudek P ESCUDERO and M MIRANDA GALLINO Arch argent de enferm d apar digest 19 6,

Roentsen studies of the magenstrasse H Lossen and L SCHNEIDER Fortschr a d'Geb d Roentgenstrahlen 10 0 TXVIV 25

The painful and latent phases and the chronicity of pep the ulter of the stomach and duodenum K WALKO Mitt a d (renzgeb d Med u Chir ro 6 txxix r

A case of sumple gastric ulcer clinically suggesting carci noma ventriculi C B BLACKBURN Med J Australia 10 0 11 213

Syphilitic gastric and duodenal ulcer J V BERNALFS and ( A BAMBAREN Rev Soc de roed interna y Soc de tistol 10 6 11 16

Duodenal extasis in ulcer of the stomach and duodenum D DEL VALLE and R DONOVAN Arch argent de enferm d apar digest 19 6 1 51 Rev Soc de med interna 3 Soc de tisiol 19 6 11 230

Perforated gastroduodenal ulcer and perforated peptic uker of the sejunum H LUNZ Arch f Llin Chir 19 6

Critical observations upon the present status of treat ment of perforating gastric and duodenal ulcers. H NAUMANY Arch f klm Chir 1926 CYTYIT 434

Cancerization of gastric ulcer Neuman J de chir et ann Soc belge de chir 10 6 xxv xxxiii 0

Dietetic treatment of peptic ulcer of the stomach and the duodenum A JAROTZAY Therapeutic Gaz ro26 I 545

Medical treatment of ulcer of stomach A C BARRY Nebraska State M J 10 6 vi 307 The medical treatment of peptic ulcer M E REHFUSS

Therapeutic Gaz 10 6 l, 533

The scheroe of management of gastric and duodenal ulcer in this clinic F H LAKEY Surg Clin N Am 1926

The contra indications to surgery in gastric ulcer R GRÉGOIRE Bull et mem Soc nat de chir 1926 lii 184

Surgically incurable ulcer of the stomach I MANDL Wien klim Wchnschr 10 6 xxxiv 30r

The surgical treatment of gastric ulcer B R McGratii Nebraska State M J 1026 VI 300

Some considerations on the surmeal treatment of gastric ulcer C \ ILL\R\\ Ción med Lima 1026 xhm 41 The surmeal treatment of gastric and duodenal ulcers

I KLOPP Therapeutic Gaz 1926 1 539 Indications for surrical intervention in acute bleeding

gastric ulcer I llesse Deut che med Wchnschr 1026

The surgical treatment of gastroduodenal ulcers with particular regard to the operative anatomy and postopera tive digestion phy jology with a contribution to the ques tion of the urgical treatment of acute ulter hemorrhage ( Boundaneson Acta chirurg Scand 1026 lt Supp viii

Should one carry out resection or simply gastro enter ostomy in the treatment of ulcer of the stomach and duo denum? O BE1 Deutsche med Wehnschr 1926 lu 624 leptic ulcer and the mechanism of its cure by gastro enterostomy I Ltva Ganas Siglo med 1026 ltma 6

Castro enterostomy for gastric ulcer from roentgeno lorical viewpoint II CURL Wiscon in W I 19 6 xxv 377 Modification of gastro-entero tomy (Billroth II) in connection with partial gastric resection carned out with the help of the suture apparatus of Hueld S Cuaor

Lentralol f Chir ro 6 lin sas An op ration for gastric ulcers of the lesser curve A Wilton Sur, Gynec & Obst 1926 xlii 693 14721 Gastric re ection and peptic jejunal ulcer J GALPERN

Zentralbl f Chir 19 6 hin 535 Diagnosis and treatment of gastro elic fistula H STRAISS Fort chr d Med 1926 Mry 53

The harmosts of benign solitary papilloma of the stomach 1 SCHLIZE Arch f klin Chir 1926 exxxit 198 Alenoma of the par pylorica in a young infant F

I riman hamorrhages in gastric carcinoma k URBAN

Arch f klin Chir 19 6 exl 391 The treatment of cancer of the tomach R F Passian arch argent de enform d apar iligest 10 6 2 802

symphobia toma its gastric manifestations with special reference to the roentgen in ling. G W Holmes R flatister and J D Caup Rah logy 19 6 vs 44 [473] arcoma of the timath M Mescuke Arch f

Let launneske 10 22271 5 I he short me ocalon a a come h ation of gastric surgers

1 5 Marinews Ann Surg 1) 6 lawn 281 Castrostomy wourding to trees method O Ivax I FVICH Bel in t de lin quir 19 6 ir roi

Roent, enological examination of the stomach after resecti n L Arisz Acta radi 1 19 6 s 100

Three case of ul total ga trectomy Il Crove Bol Soc de cirug d (hile 19 6 is \$1 The stheme action of adrenalm on the mtestmes W. 1

R HEINER MP J I ab & thm Med 10 6 x1 1062 Attempts to treat inte tinal paraly is by injection of the coeliac gan lion P Rosesstrin and H Koentra Med Klin 10 6 xxii 530

New points of view on the problem of entero pasm II STEINDL Arch f klin Chir 1926 CTX 11 243 Intestinal injury as a result of compre 100 of the aorta

H O NEUMANN Zentralbl f Gynaek 19 6 1 469 An intra abdominal hernia simulating a twisted ovarian tumor & HENNE Monats chr f Ceburtsh u Cynael. 1926 LTTII 4

A report of two cases of stricture of the bowel by mis placed endometrial ti sue T B Mouar Brit I Surg

Acute intestinal obstruction ats diagnosis and treatment V R More to Semana med 19 6 vixin 62 144 228

The pathogenesis of double intestinal ob truction C ALIPON Arch f Llm Chir 1926 CXXXIX 782

Intestinal obstruction in an infant 3 days old due to abnormal rotation of the mid gut F II IRVEY Brit I Sum 10 6 Th 187

Intestinal obstruction due to the incarceration of a diaphra, matic herma E Gallo Rassegna internaz di clm e terap 1026 vii 401

Acute rotestinal ob truction by a call stone \ P

Davis Atlantic M I to 6 xxix //8 A case of acute intestinal of struction caused by ascan

Iumbreoides If B D VANHORYA Indian M Gaz 10 6 The ascans lumbricoides and the complications which

produce mte tinal perforation M MATES Bol Soc de creux de Chrie 10 6 17 116 Two cases of postoperative intestinal obstruction M

MATLS Bol Soc de cirug de Chile 19 6 1v 97 Intestinal obstruction after the undoing of a gastro

enterostomy O M CHIARI Zentralbl f Chir 1026 Late ileus from postoperative hernia formation in the

broad heament W Zoerges Deutsche med Wehnschr 1026 ln 450 Reocolic invagination by a tumor of the small inte tine

A Covarrous Bol Soc de cirug de Chile 1026 iv 111 Intestinal amorbiasis and endocarditis ( B FARMA

Intestinal americans and endocarous of PARMA
crimis Policin Rome 19 6 vixin see prat 194
Transduedenal irrigation for intestinal conditions in
medicioe surgery and the specializes M E Jurra V
lork State J W 19 6 xxvi 672
A large myoma of the small inte time involving the fe

male genital organs G MULLER Gynéc et obst 10 6 IIV 44

An aseptic method of entero anastomosis and pastro pepunostomy by simultaneous crushing C Perret and 1 NEHANS Zentralb! f Chir 19 6 lin 1045

Diagonal end to ide intestinal and tomosis Collis Minnesota Med 1926 iv 451 Duodenal ileus L H AYVESWORTH Texas State J

M 1926 Ttn 284 Duodenal deus I E ADAMS Brit J Surg 20 6 xiv

The duodenum in grardiasis duodenitis and penduo denitis M R Castex and J C Galan Arch argent de enferm d apar digest 1926 1 /6/ The surgical treatment of removable duodenal ulcers

FINSTERER So Tag d deutsch (es f Chir B rhn 1916

Note perforation of a duodenal diverticulum K W MONSARRAT But J Surg 19 6 th 179 Perforated duodenal ulcer with strangulated inguinal

hernia report of a ca e J E Surroy Am J Surg 1926 n s r 35

Perforated ulcer of the duodenum with duodenal fistula I H ALEXANDER Atlantic M J 1926 XXIX 83

An approach to the duodenum through the left thoracic cavity in retroperatoneal perforation of the duodenum. If Konger Deutsche Ztschr f Chir 19 6 crcis 21 [473] Solitary diverticulum of the jeiunum report of a ca c diagnosed icentgenologically. If Swanners and I B

MONTGOMERA Radiology 1926 VII 144 Jejunogastric intus usception H Darling Brit J

Surg 1926 Vr. 190 Secondary jejunal ulcers and their radiological diagnosis

S G Scorr Lancet 1926 CCx1 22 1 cant Meckel's diverticulum (33 5 m long) H II

Most But J Surg 19 6 xiv 176
Intestinal obstruction due to Meckel's diverticulum ROLSSEL J de chir et ann Soc belge de chir 10 6 XTL XXXIII 18

Intersigmoid herma A J C HAMILTON Edinburgh
M J 19 6 n s xxxiu 448 [473]
Elongation of the pelvic colon and its surgical treatment

E G SIESINGER Lancet 19 6 ccvi ,4
Acute diverticulitis E PRONTICELLI Polichin Rome

ro 6 xxxiii sez prat 905 Colitis I W I arisiore I Indiana State VI Ass. 10 6

III 99 Acute colity in children of Bogota C. Torres UMANA

Repert de med y cirug 1926 xvii 428 Colon studies III The clinical significance of ileal

Stals its a ociation with colitis J L KANTOR Am J Reentgenol 19 6 Xv1 1 [473]
The roentgenological findings in ulcerative colitis R D CARMAN and A B MOORE Am J Roentgenol 19 6 Xv1

17.
The etiology and treatment of chronic ulcerative cohins
J A Barge. Am J Roentgenol 19 6 vi 10 [474]
Differential diagnosis of neoplasms of the pelvic bowel

C J DRUECK J Iowa State W Soc 1926 751 368
Wultiple polypi of the colon Sir W I DE C WHEELER

But J burg 19 6 x11 58

Creinoma of the colon a study of sixty cases k 1
MEYER W A BRAMS and J BRAMS Illinois W J 19 0

A new technique for formation of an artificial anus C Capeca Deutsche med Wichnschr 19 6 lii 635

On aseptic resections of the colon II OLIVECRONA acta chirurg Scand, 1926 lv 33

Malpo ition of cacum and ascending colon case report F S O HARA Radiology 19 6 vn 166

Hemicolectomy for exceeding starts U Grimaldi

Riforma med 19 6 xhi 704

Removal of the appendix during intervention for acute ebstruction due to ascandes S G GIARDINA Polichin

Rome 19 6 xxxiii sez prat 861

The significance of the blood picture in the differential dagnosis and operative indications in appendicitis G

Voll Zischr f Chir 1926 every 367
Some cases of subhepatic appendicitis H BLANC Pan
thir 10 6 Tym 148

Basal gangrene of the appendix F ORTHNER Med

klin 1926 xxii 537
Pnmari cancer of the appendix E Blanco Acevedo
An Fac de med Univ de Montevideo 1926 xi 141

Factors influencing the high mortality in appendicitis II GOODLOE J Kansas M Soc 1926 TXVI 251
A study of the mortality in appendicitis LEG GUERRY

and Surg 1926 lxxxiv .83

The largical treatment of acute appendicitis E. D.

Tree\_nerl Ann Surg 1926 Exxiv 104 [474]
The technique of appendectomy J Dr Mendouca
urg Gynec & Obst 19 6 thin 19,

Subphrenic infection after appendicti H VI Crure Surg Clm \ Am 19 6 v1 77.5 [475]
Intestinal obstruction a case of invagination of the

transverse colon F Josas J de chir et ann Soc belge de chir 19 6 xxv xxxiii o

The diagno is of diseases of the rectum and ignood by rectoscopy. I M Society of the rectum and ignood by the society of the rectum and ignood by the rectoscopy.

rectoscopy J M Soldevilla Siglo med 19 6 lxxiii 3
Rectal affections of childhood W A PANSLER J
Lancet 19 6 xlv1 3/4

A imple bloodless operation for anorectal prolapse in children C L Heald Surg Gynec & Obst 19 6 xln [475]

High or third-degree prolapse of the rectum K [475]

Mo SURRAT BRIL J SURG 19 6 TU 89
Posterior rectopexy by Kuemmell's method in prolapse of the rectum S S KUSMIN Beitr z klin Chir 19 6
CULYI, 5.11

Steno is of the rectal ampulla due to a congenital mem brane P Churro Rev de cirug Buenos Aires 19 6 v

Types of rectal cancer C J DRUECK Am Med 1926

The early diagnosis of carcinoma of the rectum and pelvic colon G E BINKLEY Am J Surg 1926 n s 1 87

Carcinoma of the rectum and sigmoid analysis of 121 ca es results of treatment by radiation A W Jicobs Surg Gynec & Obst. 19 6 vlm 50 [476]

The operability of cancer of the rectum C J DRUECT Illinois VI J 19 6 1 155

The surgical treatment of operable cancer of the rectum

A Schwartz Ars med 1926 ii 161

The abdomino anal extripation of the rectum in cancer

of the rectum J EVALTO Arch f klin Chir 19 6 cxl
190
The operative technique of amputation of the rectum

The operative technique of amputation of the rectum by the intra abdominal route A SCHWARTZ and B FEY I de chir 1926 xxvii 643

Discussion on the complications of even ion of the rectum I LOCALIVET MUSICER and SER C GORDON WAYSON FOR ROY Soc Med Lond 1016 NY Sect Surg 18 [476] Wistakes and dangers in the method of evaguation of the amoud flevure E HESSE Zentralbl f Chir 10 6 Im

The treatment of hamorrhoids by the injection of chemical a preliminary report H T Hayes Texas State J M 19 0 XIII 47

Po tive galvansm for the treatment of hæmorrhoids H W MGMOND Med Herald & Physiotherap, 1926 vlv

The topographic diagno is and surgical treatment of and listula W Capella Deutsche Ztschr f Chir, 1926

Imperforate anus—the surgical treatment of cases of maldevelopment of the terminal bowel and of anus S M

### Liver Gall Bladder Pancreas and Spleen

Central ruptures of the liver and their complications particularly abscesses L ANDERSSON Beitr z klin Chir 19 6 cxxxv 696

Mechanical icterus A Navarro Semana med 19 6

Catarrhal externs its diagnosis and treatment by a duo denal tube J C Galán and A López García Rea A oc med argent 19 6 xxxix 260

A new clunical form of familial interus P ESCLIDERO Arch argent de enferm d apar digest 1926 i 871

Urinary excretion of cholesterin L CONDORELLI

Policha Rome 19 6 xxxiii sez prat 796 Infection and hepatic secretion W Manara Gaz

mternaz med chir Naples 19 6 p 315 Hepatic amorbic abscess F La Cava and T Pontano

Policin Rome 19 6 visual sez med 3 9

The treatment of hydatid cy ts of the liver opening into

the bile passages R R VILLEGAS Rev de cirug Buenos lires 19 6 v 310

Angioma cavernosum of the liver A Fabris Speri

mentale 19 6 lxxx 19

The technique of extirpation of the liver in dogs E MELCHOR Zentralbl f Chir 1926 lin 710

The physiological significance of the gall bladder J G REMYNE Surg Gynec & Obst 1926 dim 181

The filling and emptying of the gall bladder G H
COPHER S KODAMA and E A GRAHAM J Exper Med
1026 xliv 63 [476]

On the expulsion of hile by the gall bladder and a re ciprocal relationship with the sphincter activity P D McMaster and R Elman J Exper Med 1926 xhv

173 Double formation of the gall bladder A Brata Zentralbl f Chir 1926 hin 1955 Cholecystography F M Honors Virginia M Month

1926 lin 281 The development and application of cholecystography

S MOORE Brit J Radiol 1926 TXX1 283 Graham's method L HERMAN Fortsche a d Geb d

Roentgenstrahlen 19 6 xxxiv 121

The demonstration of the pall bladder in the rocutgen picture C M Bettrevn Arch f Verdauungskr 1925 XTTV1 262

Cholecystography the Craham Cole test M DE

The importance of the roentgenological examination of the gall bladder and bile passages ORTH to Tag d

deutsch Ges f Chir Berlin 1926 Cholecystography and its diagnostic importance B O PRIBRAM K GRUNENBERG and O STRAUSS Fortschr a d

Geb d Roentgenstrahlen 1926 zvviv 235 The oral administration of sodium tetra iodophenol phthalein J E HEATLEY J Oklahoma State M Ass

1926 114 224

The roentgenological demonstration of the gall bladder after the oral administration of the contrast medium L RACHWALSKY Klin Wchnschr 1926 v 66

Cholecystography by the oral administration of the sodium salt of tetra iodophenolphthalein I W Markon Wiscon in M J 1010 XXV 331

A simple method of preparing gelatin capsules of tetra iodophenolphthalein B R Moonry Radiology 1026

vn 16, Cholecy tography with rectal introduction of the con trast medium. Il STEGEMANN 50 Tag. d. deutsch. Ges

f Chir Berlin 1026

Diseases of the gall bladder K A MEYER J BRAM and W A BRAM Cincinnati J M 1026 VII 341 The bacteriology of the gall bladder on the ba is of 100 cases or erated upon \ Vo llepry Bestr z klin Chir

A clinical and pathological study of cholecystitis and cholelithmsis > If MENTZER Surg Gynec & Ohst

1926 xlu 782 The surgical indications of inflammatory diseases of the gall bladder A P HEINECK Vinginia M Month 1026

lin\_315 Two primary tumors of the gall bladder with the report

of a clinical case of sarcoma G BRENDOLAN Ann ital dichir 196 v 591 A review of eighty mine cales of gall bladder surgery. G

H BUNG I South Carolina M Ass 1926 von 162 Complications incident to the operative treatment of in flammatory di eases of the gall bladder A P Hervets. Chicago M Rec 19 6 xlvm 255

Cholecy toduodenostomy G I MULLER Ann Surg 1026 IXXXIV OS 14771

Cholecystectomy F H LAIREN Surg (Im N Am 1026 VI 6 a 477 Experimental studies concerning the constrictor muscle of the common duct F KEACH Wien med Wchnschr

1926 lxxv1 369 The physiological variations in resistance to bile flow to the intestine I ELMAN and I D McMASTER I Exper Med 1926 xliv 151

The prognosis and therapy of high stenosis of the bile passages Goetzk 50 Tag d deutsch Ges f Chir Berlin 1026

Experimental studies of plastic operations upon the bile pas ages P Muzeveek Deutsche Ztschr f Chir 1026 CTCV 267

A bridging of operative defects of the choledochus by means of rubber tubes K GERLACH Deutsche Zichr f Chir 19 6 excit 105 Resection and plastic operation on the common duct

G Caponerro Toliclin Rome 1926 xxviii sez prat Cancer of the ampulla of Vater H GARCIA LAGOS V A

UGOY and C M DOMINGUEZ An Fac de med Univ de Montevideo 10 6 vi 166

Roentgenographic examination of fistulous bile passages particularly with sodium iodide KEMPENEERS I de chir et ann Soc belge de chir 1926 xx1 xxxiii 12 Biliary fistula from a wound of the hepatic duct res-

toration over a rubber tube recovery J ARCE Bol inst de clin quir 1026 11 184

The question of porotic malacia after bile fistula: I' SEIFERT Beitr z klin Chir 1926 CXXVI 496

Pecurrent pain and discomfort after operations on the bile passages with particular regard to anastomosis be tween the biliary tract and the duodenum H FLOERCKES Deutsche Ztschi f Chir 1926 exciv 181 [478] The mechanism of pancreatic secretion J MELLANBY

Inncet 10 6 ccx1 15 Isolated subcutaneous rupture of the panereas G II

Trist Med klin 1926 xxii 366 Pancreatitis associated with cholecystitis experimental studies I G I UP WOFF Verhandl d'16 russ Chir Kong

Moscow 1925 p 624 [478] The value of Loews - mydriatic test in the diagnosis of acute panciestitis. If BAILLY Practitioner to 6 even

Pancrettic cyst M P Hoon Mantic M J 1026 **TRIT** 782

A case of severe pontaneously healed necross of the pancreas T Moisescu Wien klin Wehnschr 19 6 XX TIT 18. Three contributions to the subject of the surgery of

the pleen I I HILLPOWICZ Arch f klin Chir 1026 ex) 528 Splenectomy in pregnancy C \ERCEST Study sas

saresi Sassari 1026 II Malaria and splenectomy C Coentil Arch f Schills

u Tropen llyg 1926 xxx 31 Indications for splenectomy in chronic malaria. I Dominice Studi sassaresi Sassari 1926 ii

P SEL Cholesterin emia in a man after splenectomy I oliclin Rome 1926 vviii sez chir 372 Studi sassaresi

Sassan 1926 II 13 The relation of the change in the blood picture following plenectomy to the blood forming function of the spleen

I BERESON Chir Sammelh d propaedeut chir klin u d Inst I krebsforsch I Mo kauer Staatsuniv 19.5

Fever after exterpation of the spleen a clinical and exper mental study I Cold and If Schwitzler Arch f khn Chir 1926 val 28

#### Miscellaneous

On total transposition of the viscera and its clinical im portance J I INDERSON Proc Roy Soc Med Lond 1926 xx Sect Obst & Gynec 119

A case of Glénard's disease with interpolition of viscera between the upper surface of the liver and the diaphracm N ROMANO II II CARELLI and R N Res Soc de med interna y Soc de ti iol LAHER ABIDE 10 6 11 184

What does one accomply h with a Falma on ration? A YON TEMPSEY Bestr z klin Chir 19 6 czysyl o The operative treatment of prolap c of the liver in um

hilical herma K VOGELER /entralbl f Chir 10 6, Inc.

Traumatic diaphragmatic hernia with intermittent high intestinal obstruction a case report H B Linius \m I Surg 10 6 n s 1 33

A successful combined operation for complicated attenut diaphragmaticherma P WALZIE Wien klim Webnschr 1020, TXXIX Q1

Foreign bodies in the abdomen I Buckstrim I Am M Ass 10 6 lxxxvii 661

Hyperalgesic zones in diseases of the abdominal organs W Von Gaza Beitr z klin Chir 1926 cvvv 433

The differential diagnosis of chronic inflammation of the adnera, subchronic appendicitis carrinoid of the appendix and pseudomy roma of the perstoneum ( 11 Schneider Monatsschr f Gehurtsli in Cynack 1926 lavii 142

Surrical complications of abdominal typins () MULNICH Aich & Schille of Longer Hyp., 1920, 333.

90 Retroperational Immers Commission

deutsch Couf Chle, Berlin tore Ketroperlement cysts R 1 Stewart Lillianush M

1026 nu verhl, 142 Loren hody cysts should be paradile a vita of the ord tone deasity ( G Ottypner Buff folias Honklas Hone)

Halt , 1926 avxlv, 114 So called retroperitorical linguistic

Deutsche med Wehn chr. 1926 [f] 6th A comerated mixed tumor in the killing region 1 11

Surm Northwest Med , 1920, xxv, 140 Some cales of abdombad and privile surgery with report

of cases. M. M. Guine J. Lamest, mon xlyl 167 The source in abdomined surveys ( I LARY Am )

Such roth n.s. 1 zh Too tight abdominal humby by J. I. I NOTED Am I Sure 1026 ns 1, 27

# GYNI COLOGY

#### Uterus

A method of demonstrating the ganglia of the cervis uter A A GEMMELL I Obst & Cynac Brit I mp 19 6 XXXIII 259

The morphological cell structure of the carlometrum E TERRUIN Zischr f Geburtsh u (ymack , 1926 lexxix

The lipoids of the endometrium before during and ifter menstruation A BELLT'T Riv ital di gince 19 6 iv

575 Studies on the smooth fibers of the uteru 11 Krifft p

Gynecologie 1926 xxv 3 r
The question of tubal implantation in the uterus A MANDELSTAMM Monats chr f (el urt h u (ynack 1926 brau 138

The symptoms of bicornate uterus C II FACELI RECUIT Zentralbl i Gynack 1916 | 803

The report of tro cales of utneuloplasty for uterus becomes unicollis (yrimetricus) followed by repeated premaneres H L Mupray J Obst & Crize In Emp., 1926 xxxiii, 283 Utenne perforation in artificial abortion wi havul ion of

the rectum and igmost healing following the formation of an arth.c. lan. and the implantation if a sement of mali mesune F Strand Zentral' I f Gena-k 19 Lece

Ret flerert and mjuries. H. Fuerr. Zertraft I. f. Gymen, 19 f. 1 871

The transvalue t ea ment of uncomplicated set of a patement of the theres P B Barry Art J O's & Little p Lips Kulland's opening 1 Par 23

For de grace ed of 1, 19 / 21, 44

For de grace ed of 1, 19 / 21, 44 (450,

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11/2 to X716 ting Curine hemorrhago P. D. McMittan. Couth M. &

5 10st lexxvoir con

The ence of profile and frequent benonthing. A Here Archef Cymek 1926 (xxvll, 196 the climical and pathological features of policity bemore to e S A Weere Am J Olas & Gynei , 1910,

XII 1 He treatment of monographic Mathieum N Zinhand

1 1 19st xx4, 217 Cen receive trestment of un this his marchines vis Wich med Webnicht and leave dil

the thyroid function to Idonnia of the aferia-I a st Property degrees and by the

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H P - nama Dutofit I Copiet , that , 1,647

Radiation in the treatment of non malignant conditions of the uterus C O DONALDSON J Missouri State M Ass 1926 TXIII 294

The biological relations between Inteum cell growths and malignant chorionepithelioma K. HEROLD Ztschr f Geburtsh u Gynaek 1926 lavur 561 Deciduoma and chorio-epithelioma C Mockeberc

Bol Soc de cirug de Chile 1926 iv % Vesicular mole with rapid and malignant evolution I

LORTE Policim Rome 1026 vxxiii sez chii A consideration of cancer of the uterus M W SHER WOOD Tevas State J M 1926 XXII 263
The value of biopsy R MEYER and C KAUFHANN

Zentralbl f Gynack 19 6 1 20 [481] The significance of the histological malignancy index for the progno 1 and treatment of carcinomata of the cer

Am J Roentgenol 1916 xv1 30 [482]
The histological findings and the prognosis in cervical careinoma A Plate Zentralbl f Gynnel, 1926 l

Alterations of the bladder in cancer of the uterine cervis Mangancy in a cervical polyp E Bishop Am J

Obst & Gyncc 1926 vii 284 Diffuse metasta is of a breast carcinoma in a uterus con

taining an isolated intramural myoma. H METZGER

Ztsche f Krebsforsch 19 6 vun 220 The treatment of cancer of the uterus and vagina at the University Gynecological Clinic Berlin E PHILLIPP and P GORNICK Muenchen med Wehnsche 19 6 luxur A preliminary report of the u e of radrum in cancer of the uterus O L Noasworth, Texas State J M 1926

Iwo deaths following the intra uterine application of radium BEGOUD Bull boc d'obst et de gynéc 1026

14831 The technique of roentgen radiation of uterine carcinoma

W HALPT Strahlentherapie ro 5 vts 132 Pecurrence of uterine carcinoma after radration STERN and O Borr Strahlentherapie 10 6 xx1 4 6 Carcinoma of the cervix and fundus uten treated by combinations of surgery radium and roentgen ray. II II

B wing Radiology 19 0 vr 48 [483]
The technique of abdominal hysterectomy for carcinoma of the uterus & IRANZ Surg Gyner & Obst 1926 vlu 18,

studies of the effect of extirpation of the uterus and the artificial menopau e L KRAUL Wien klin Wchuschi . 10 5 TYYIT 9 Two cases of double ureter complicating Wertheim's

hysterectomy W I SHAW I Obst & Gange Brit Imp 10 ( TTTILL Sa Removal of the cervix in hysterectomy for benign lesions I II I ATTEN Surg Chin N Am 19 6 vi 593

### Adnexal and Perluterine Conditions

The importance of the blood-cell sedimentation rapidity in the treatment of adnexal diseases R GROSZ Zentrulbi f Gynack 19 6 l 1464 Radiation treatment of female adnexal tuberculosis H

MARTILS Strahlentherapic 1926 XXI 260 Poentgen treatment of acute and subscute inflammations

of the female gentalia I Thropon Monatsschr f Geburtsh u Gynaek 1026 lynz 60

The treatment of inflammatory utero adnexal processes by high frequency currents | IRRBARNE and R C DE PAVÉ Rev méd Lat Am 19 6 xi 1,05

Fluoroscopic vi unhantion of tubal peristalsis. I C RUBIN and A J BENDICK J Am M Ass 1926 IXXXVII 657

A new restrument for use in the Rubin test TA York J Am M Ass 1926 lxxxvu 409 The diagnostic value and therapeutic application of

persuterme insuffiction of the fallopian tubes in cases of stenlity I C RUBIN Am J Surg 1026 ns 1 1 The diagnostic and therapeutic experiences with per tubation M Vov Scheller Zentralbl f Gynaek 1926

Adenoma like growth of the tubal mucous membrane m tuberculosis H Zacheri. Arch f klin Chir 19 6 The inflammatory origin of atresia and heterotopic

epithelial growths in the tubes I KITAI Arch f Gynaek 19 6 exviii 413

Two cases of prosalping opening into the bladder GOUVERNEUR and LECUEU J durol mel et chir

10 6 XXII 55 A case of volvulus of the tube A BENGOLEA Rev de

cirus Buenos Aires 1026 v 271 A case of tubal rupture D MENDOZA Pev de med y cirug Caracas 1976 ix 102 Hamorrhage due to rupture of the tube diagnosis of

hemorrhage due to placenta previa A MATERANINI Clin ostet 1026 xxviii 304 The formation and ripen ng of follicles in the newborn

and in children II HARTMANN Arch f Gynael, 1926 exxvur 1

The female sex hormone R T FRANE and M A GOLDBERGER J Am M Ass 1926 EXXVII 554 Clinical tests of the ovarian follocular hormone with a

note on experimental work on monkeys J P Pratt and E Allen J Am M Ass 19 6 extra 1064 [484] Experimental and histological studies of the method of action of very small roentgen do es upon the sex glands in the human being C \ Wigyne and C Chicaylor

Strahlentherapie 10 6 xxii 125 The \ray treatment of hypofunction of the ovary with special reference to the regulation of menstrual func tion I S Hirscir Radiology 19 6 vn 93

So-called stimulation radiations in gynecology II Marrits Strahlentherapie 1926 Ttl 42 Sterility associated with habitual amenorihora relieved by Y ray therapy I C RUBIN Am I Obst & Gynec 1026 U 6

Temporary stemberation by means of radium rays If KUPFERBERG Strahlentherapie 2026 XXII 141 The treatment of uterine harmorrhages cau ed by func

tional disturbances of the ovary by resection and ligation of the ovanes M HENNEL Zentralbl f Cynael 1926

Ovarian tumors in childhood and precocious puberty G TERMEER Arch f Gynnek 19 6 CTXVII 437 What quantity of blood can a rapidly growing ovarian

cvst take from the circulation? L. H. ENGELBRECHT Zentralbl f Gynaek 1926 I 671 Echinococcus of the ovary J W MILLER Zentraltl

f Gyrack 1926 I 585 An unusual case of dermoid cyst of the ovary with cacum elements and fat lobules J LEIBTSCHIK Zentralbl

f Gymaek 1926 l 6r An ovanan stone II JENTTER Zentralbl f Gynaek

1926 1 678 Struma of the overy T Manasse Ztschr f Geburtsh

u Gynael. 19 6 lexxiv 638 I ostchmacteric hamorrhage and granulosa cell tumor

of the ovary J Scrittfmann Zentralbl f Gynack 1926 1 1065

Krukenberg tumors of the ovaries W Sixty T Obst

& Gynze Brit Emp 1926 XXXIII, 56 Ovanotomy in swine H HETZEL 1925 Berlin Schoetz A study of the hasal metaholi m weight and blood themistry following hilateral oophorectomy S H Gerst M A GOLDBERGER J Telss and H LANDE Am J Obst. & Gynec 19 6 xn, 206

Chaical experiences in ovarian substitution therapy with ovowop (ovarnon) a new hiologically tested preparation Il Flechener Muenchen med Wchn chr, 19 6 lxxiii

The transplantation material in homoplastic ovarian tran plantation P SIFFEL Klin Wchnschr 19 6 v 60 Vancocele of the broad bgament W H FISHER Am J Obst & Gynec 10 6 val, 253

Chronological study of tumors of the round heament M ORRU Studi sassaresi Sassari 10 6 ii

### External Genitalia

The glycogen content of the vaginal epithelium its diagnostic and therapeutic significance E Schwib Ztschr f Geburtsb u Gynaek 10 6 lyxxx 510

The reaction of the vaginal secretion of the newborn child H Kienur Zentralhl f Gynaek 1926 1 644 The vaginal flora in childhood and puberty G Soures

Ztschr f Kinderh, 19 6 zl 7 7
Biological studies on the virulence of the vaginal bacteria

C Louros Arch f Gynaek 1926 CXXVIII 48 The biologicochemical treatment of the vaginal leu combon H ALEXANDER Deutsche med Wehnschr

10 6 h ,04

The question of the development of cervicos agrinal fistula J Santer Wien Ilin Wehnsehr 19 6 Texas 500 rescovaginal fistula operation according to the method of Bassini s plastic operation upon the aponeurosis R

FREUND Zentralbi f Gynael. 19 6 | 1177 Heterotopic decidua in the anterior vaginal wall I O

SCHOCH Zentralbl f Gynaek 19 6 l 345 A clinical contribution on adenomy o is B LANGEN Monatsschr f Gehurtsb u Gynaek 19 6 km 303

The treatment of gynatresia H NAUJOKS Monats chr f Geburtsb u Gynael. 19 6 lxxus 68

Congenital absence of the vagina and the formation of

an artificial vagina according to Amann's method I TIEANADSE Zentralbl f Gynael. 19 6 1 547

The formation of an artificial vagina from the rectum in a case of vaginal defect R FRANZ Zentialbl f Gynaek

19 6 1 545 The formation of a vagina from the hladder H H

CHAID Monatsschr f Gehurtsh u Gynaek 19 6 lxxn

Deep vaginal anus plastic operation on the rectum, and vagina with perineorrhaphy recovery V ALOI Ann. ital di chir 19 6 v 612

Permeal tears and their relation to prolapse M HENKEL Deutsche med Wchnschi, 19 6 lu 696

Contribution on the symptoms and treatment of accu dental injuries to the external genitalia and the vagina and the abdominal walls W RASFLAUB Monatsschr f Geburtsh u Gynaek 19 6 lxx11 206

#### Miscellaneous

Progress in gynecology F A PEMBERTON Boston W &S J 1926 CXCV 3/1

Changes in gynecology and in patients E OFITZ Zentralbl i Gynael 1926 1 928 Retrospect and prospect in the field of minor gynecology

A MAYER Zentralbl f Gynaek , 1926 l 916

Backaches R SCHROEDER Zentralhl f Gynaek , 1926, The pre operative responsibilities of the gynecologist

W T DANNEUTHER Am J Ohst & Gynec , 19 6 xii

The question of prostitution F A THEILHABER 1926

Predisposing factors to pelvic relaxation and prolapse (etiology) J RUWING California & West Med 1926, XXV 206

The relations between the female genitalia and the di gestive function RECASENS I rog de la clin , Madrid, 19 6 XII, 30

Medical study upon infantilism of the female genitalia and capability of reproduction T H VAN DE VELDE Zentralbl f Gynaek 1926 l 799

The endocrane treatment of female sterility E POUGET Chn Med 1926 xxxIII 262

The endocrinopathies in gynecology and their hiological diagno is C A Castano and A M Del Pont Gynéc et obst 19 6 x11 20

Contribution to the study of the vision field and the chromatic senseduring the catamenial and puerperal period

Menstrual poisoning G Schubert and O Steuding
Monatschr I Geburtsh u Gynaek 19 6 km o1 Ovarian changes associated with menstrual anomalies

brought about hy chronic infectious disea es H HART MANN Zentralbl f Gynael 1926 1 1368 Intermenstrual dysmenorrhoea G Cuzzr Clin ostet

10 6 XXVIII 204

The problem of the cure of leucorrhora H ROESCH Zentralbl f Gymel. 1026 l 1081 Vaccine treatment of female gonorrbora T Wolff

Zentralbl f Gynaek 1026 l 1060 Hydrocele muliehris report of a case J W PRICE JR 1m J Surg 10 6 ns 1 30

Pelvic sympathectomy a contribution on its technique ( F ROPINLLE Semana med 1926 taxiii 55

A particular form of skin tumor in the female genital remon O kiess Dermat Wchnschr 19 6 lxxxii 733 Chocolate cysts F PISCHZER and P SCHMIDT Monats schr f Gehurtsh u Gynnel 1926 lxxii 83

Adenomyomata or tumors composed of endometrial like ti sue J V Micros Boston M & S J 1926 cxcv,

Endometrioid heterotopic growths on the sigmoid colon undergoing climacteric regressive changes F Gross Frankfurt Zt.chr f Path 1925 xxxiii 238

The question of ectopic decidua O BRAKEMAN'S Zentralhi f Gynaek 1926 l 13/4

Cancer statistics before during and after the war F KAUFFMAN. Zentralbl f Gynnel. 19 6 l 198 [484] Solanoma of the abdomen in the female I JAYLE

Rev franc de gynec et d'obst 19 6 xx1 85 Radiology in gynecology C Helser Rev med Lat Am 1926 x1 17/8

The limits and dangers of conservative therapy of gynecological disease with particular reference to radia tion treatment W BENTHIN Med Klin 19 6 xxii 719 Radiation treatment of genital carcinoma O Von

FRANQUE Strahlentherapie 19 6 XXI 187 Our determination of the indications for radiation

therapy in malignant diseases of the female genitalia W Fuersy Schweiz med Wchnschi 1926 lvi 313 Gynecological clamps for the ureters, tubes round liga

ments and blood vessels O P Mansfeld Zentralbl f Gynack 1926 1 364 Rectal lesions following gynecological laparotomies

REEB Bull Soc dobst et de gynec 1926 xv 154 [485]

### OBSTETRICS

### Pregnancy and Its Complications

The problem of age and primiparity G Liven Acta obst et gynec Scand 19 6 in Supp [486] A case of Naegele pelvis F Ivens and R W Brook [486]

FIELD J Obst & Gynac But Emp 1926 TETM 296

The early diagno is of pregnancy A Directs? Unnats schr f Geburtsh u Gynusk 19 6 beu 249 357 A critical examination of the broadched Uderhalden reaction ( Virsa Zentralb f Gynusk 19 6 f 5 c A new simple early sign of pregnuncy S Weissen-Mirko

Zentralbl f Gynaek 19 6 1 5 4 Abdominal method of ob tetrical chagno is J C

WINDEYER Med J Au tralia 19 6 11 131 The determination of pregnancy in the dog by means of the roentgen ray W NEL and W NELWIN Berl

the roentgen ray tieraerzti Wchnschr 1926 thi 363 Rectal or vaginal examination of pregnant patient."

Bythis Zentralbl f Cynick 19 6 1 846

P Byunzi The estimation of the length of pregnancy from a legal standpoint O VON FRANCE Zentralbl f Gynnek 1926 I 865

The relations between men truation ovulation and conception in the determination of the a e of young human embryos K Volkyany burtsh u Gynaek 19 6 lexiii 58 Monat schr f Ge

Dia nostic experiences with interferometry II PUNCE Zentralbl f Gynaek 1926 l 1 9 The diagnous of pregnancy and sex distermination by the

help of interferometry II KLELSATTEL Abn Wehnscht 10 6 1 06

Interferometric sex determination in 100 cales. R Monats chr f Geburt h w Gynael, 10 6 lvun 19 The formation of sex characters and their relation to the

remital gland R ALCKER Abhandl a d Geb d Sexual for ch 10 3 1 1 The lower uterine segment in pregnancy and labor II P common Deutsche med Wehn abr 1926 lu

A clinical tudy of 133 pregnancies following casarean ection L M 11150 \ lm ] Oh t & t vnec 1926 хц 26% The obstetrical history of a patient who had even pren

nancies after a ca arean action. Appropria and Ball ARD Bull Soc dolat et de sance de lar 10 6 ve co [486] The early diagnosis of an nuphrlus I I Corp and

E COOPER Surg Gyner & Oh t 10 0 xlm 108 The reticulo-endothelial 3 t m di ring pregnancy R Benny Zentralbl I Gyna k 13 6 l

The participation of the f tus and the thyroid in the elevation of the br al m tabeli m lumm, pregnancy GARIPUY LASSALIE and SEADRAIL ( VII C et obst

19 6 XIII 17 [486] Hyperpituitarism of pregnancy J Bizis Semana med to 6 vexuu so

The relation between the fetal and maternal blood T REVESS and M TUROFT Zentralbi f Gynack 1926 l 985

Studies on the relation of the sugar in the maternal and fetal blood III Contribution to the biology of the new born K HELLMITH Arch I (ymaek 19 6 crewn) 11

Is the blood sugar increased during pregnancy and in the resence of myomata K HELLMUTH Deut che med Wchnschr 1926 la 5,

Chlorosis during the period of gestation and its relation to pernicious anemia of pregnancy I Escu Zentralbl f Gynael. 1926 1 837 Two cases of intractable comiting of pregnancy cured

by ligamentopery DARTIGUES Paris chir 1926 XVIII Brief note on pregnancy and pneumoperitoneum A B

Sobrivno I ev de gynee e dobst 19 6 xx 225 Phthus therapy in pregnant and puerperal women C Mesce Zentralbl f Cynaek 1926 | 921

The treatment of malaria in a pregnant woman M

Unico Cynée et ob t 102f xis 50 I it ment metaboli m of the liver in pregnancy H

ELFINGER and C W BIDER Arch I Cynael to 6 CTXVIII 93 The significance of Van den Bergh's test in pregnancy

particularly in a toxico is H I UFFNGER and C W Byper Zentralbl f Gynaek 1926 l 514

The preteral insufficiency test in pregnancy G From MOLT Zentralbl f Cynnek 1026 1 1210 Lenal function in pregnancy and a new method of ex

amination I D APRILE Riv ital diginee 10 6 is 3 l Indicanamia and its importance as a renal function less in pregnancy II Furinces and C W Baper Arch f Gynaek 1926 exxviii 309

Hematuras during pregnancy J Bazin Semana méd TO Q AXXIII OF Tovemias of pregnancy J I TALBOT Atlantic M J 1926 XXIX 671 [187]

The pre ent status of the toxxmias of pregnancy POLAL J Am M A.s 1026 lexxus 226 Felampsia at the Chicago Lying in Ho pital Immediate and late results J I Gaelvittle J \m M

[487] As 19 6 ITTIN 2 8 Toxamia of pregnancy 9 c case with convultions at the New York Lying In Hospital 1 B Davis and J A Harrier J Am M 148 19 6 leaven 233 [487]

Magnesium ulphate intravenou ly in the care and treat ment of pre eclampsia and eclampsia L C Mc EHE and J \RUWINE J \m \1 \ss 19 6 lexxus 236 [487] Lactic acid in the toximias of pregnancy II J STIND-FR and 1 If RABELET Bull Johns flopkins Ho-p Ball

10 71777 > 01 The stu by of eclamp in on the basis of our own ime ti gations W ANGEMEISTER 10 6 I eipzig Hirzel

The pecific therapy of toxico is of pregnancy with par ticular reference to albuminuria and eclampsia G ALBANO liv ital diginec 1026 iv 40

A clinical cale of eclampia of pregnancy Córpoba Med Ibera 19 6 x 2 An explanation of peripheral increa e in the blood pres-

sure in pregnancy and eclamp ia Louro Zentralbl f Cynaek 1926 | 1439 The improved prophylactic method of treating eclamp

sia with comments on the variations suggested by Wil hams Stander Speidel and King B STROG WOFF J Obst & Cynec 1926 x1 56 [487] Lelumpsii and culcium 1 Rissauxs Zentralbi f

Cynack 19 6 I 41 Lelampsia con equent upon nephriti in children

NOBECOLET Med I re s 1926 ns cvui 94 The treatment of eclampola II VI KIBEL South VI T 2026 XIX 618

Chorex gravidarum-13 termination of pregnancy ad visable in evere ca es? L I happeneder J Indiana State W 1ss 1926 VIX 314

A case of chorea gravidarum with histological findings k ton Lehoczky Semmer weis Zentralbl f Gynack. 1026 1 608

Hemiplegia during pregnancy F C ARRILLAGA and I Bazin Bol Soc de obst y ginec de Buenos Aires 10 6.

lleus of pregnancy and allied syndrome complexes. I LUCHS Monatsschr f Geburtsh u Gynaek 19 6 lvvn

Spontaneous rupture of the uterus in an old perforation scar W Vogel Monatsschr f Geburtsh u Gynael 1026 IXXIII 51

Spontaneous rupture of the uterus in the fourth month of pregnancy P SCHUGT Zentralbl f Gynnek 19 6 1

A revised conception of antepartum accidental hom

10 6 XXXIII 10.1 Hamorrhage in the eighth month of pregnancy resulting from a rupture of an aneurism of the splenic artery H

Siencer Zentralbi f Gynaek 1026 1 1324 Studies on the physiology of the human amnion H

KEIFFER Gynéc et obst 1926 viv 1

Biochemical studies of the human amniotic fluid O FLOESSVER and F LIRSTEIN Zt chr f Biol, 10 6 lyon

Chemical changes at various ages of the placenta B BEVENFELD Zentralbl f Gynaek 1926 1 1230

Study of an early human ovum and the functional simi lants of the ovarian and placental hormones J Young Edinburgh M J 1926 n s vexiii Edinburgh Obst Soc

The pathology of the placenta G I STRACHAN J

Cervical des ccative placenta H HEIDLER Wien klin Wchnschr 1925 xxxviii 1382

The symptoms of polyps in the placenta W ROSEN STEIN Monatsschr i Geburtsh u Gynaek 1026 Ivoi

Premature separation at six months of the normally in serted placenta SCHOCK VERT Bruvelles med 19 6, VI

A case of concealed hæmorrhage with placenta prævia F J Browne I dinburgh M J 19 6 n s vviu Edin burgh Obst Soc 1 o

The treatment of placenta previa T NETZET Deut che med Wchnschr, 1925 li, 1903 Clinical treatment of placenta prævia P W Stegel

Monatsschr f Geburtsh u Gynaek 1926 Ivvin 18 114 The cases of placenta prævia at the Lying In Hospital in harlsruhe during the years 1893 to 10 7 H WIGNER

Ztschr I Geburtsh u Gynaek 1916 lxxxix 603 The genesis and significance of maternal chills in intra uterine death of the fetus C MERLETTI and A VIGNALI

Clin ostet 1926 XXVIII 291

The question of the influence of coitus upon premature rupture of the fetal membranes M I LIUBIMOWA

Zentralbl f Gynaek 19 6 l 1466 Artificial abortion A Doppertiem Muenchen med

Wennschr 1926, lxxiii 485 Legabites of artificial abortion particularly from a eugenic standpoint M Hirscii Arch f Frauenk u konstitution forsch 1926 xii 1

Social indication for the interruption of pregnancy H

RIESE Neue Generation 1926 xxii 65 19 Is fear of death an indication for artificial termination of pregnancy? H KUESTNER Deutsche med Wchnschr 1926 lu, 32

A case of fatal perforation injury (artificial abortion) K BURGER Zentralbl f Gynael 1926, l, 1160

The responsibility for the treatment of abortion. H. SELLHI IM Muenchen med Wchnschr 1926 lextil 475.

53 5,3 Inflammatory tumors of the omentum in pregnancy A Szenes Arch f Uhn Chir 19 6 cxl 559

Fibroids and pregnancy WHYTE N Zealand M I 10 6 YTV 214

Uterine fibroids complicating pre-nancy P M Mur RAY J Nat M Ass 10 6 TVIII 123

Fibroma in pregnancy a clinical note A MARTA Riv ital diginec 19 6 iv 553

The treatment of cystic tumors of the ovary during

pregnancy and at the time of delivery Keller Bull Soc d obst et de gynec 1926 vv 141 Sarcoma of the sucrum as a complication of pregnancy I LEDIRER Zentralbl f Gynaek 1026 1 1106

Triple pregnancy with two terato encephalitic fetuses MONTEVERDE and I V LAGOMATSING Rev argent

de obst y ginec 10 6 x 111 Quadruple births with reference to a new case I'

HARLIE Zischr f Geburtsh u Cymrek, 1026 lyxxix I stra uterane pregnancy P GALL Kiv ital di ginec

10 0 11 585 Diagnostic puncture of the space of Douglas in extra

uterine pregnancy L ZEITLIN Monatsschr f Geburtsh u Gynaek 10 6, lyyn 168

Bleeding from the ovary or extra uterine pregnancy M FRALGOTT Monatsschr f Geburtsh u Gynack . 10 6

A case of extra uterine pregnancy R SERPA Repert de med v cirug 1026 vil 553

A case of primary abdominal pregnancy

Yea e of pentoneal pregnancy L L PEREIPA Repert

de m d v cirug 1926 vvii 547 Fatra uterine pregnancy elimination of the fetus into the bladder and then by way of the urethra right pyone

I d urol phro i nephrostomy ureterolysis GAYET med et chir to 6 TX1 456 I xtra uterine pregnancy perforating the unnary blad der ( MEYER Bull Soc dobst et de gynec 19 6 xv

abortion treated by expulsion of the tubal contents P TAGLIAFERRO Chin ostet 19 6 arvin 366

Combined intra uterine and extra uterine pregnancy with a report of 276 ca es including two new ca es ob erved by the author L Novik Surg Cynec & Obst 1926 [490] A case of double ectopic hestation T S STLCKEY

Med J Australia 1926 n 14, W W KING I Obst & A case of ovarian pregnancy

Cymee Brit Emp 1926 vexili 91 The early interruption of extra uterine pregnancies and

its relation to the menstrual cycle CRUNICIANU Gynec et obst 19 6 viv 36
Conception and the course of gestation following extra

uterine pregnancy A MALICE Riv ital di ginec, 1926

Precasarean subtotal abdominal hysterectomy Pansini Iolichin Rome 19 6 xxxiii sez prat 934

### Labor and Its Complications

A new delivery bed G GELLHORN Am J Obst &

Gynec 19 6 vil 301 The biology of labor C VIALE Rev med d Rosario 1026 XVI 135

The mechanics of labor A O Stoss Arch f wi sensch u prakt Tierh, 19 6 Im 455

Constitution and primary labor late in life P REM The great importance of the first stage of labor and the ngidity of the soft parts with regard to the duration pain

fulness and outcome of labor B Ascrever Ztschr f Gehurtsh u Gyniek 1025 lxxxx 2, The effect of ankylosis of the hip upon the femal pelvis

N Louros Arch f Lin Chr 19 6 cxl ,32
The etiology and treatment of atony of the uterus G

HASELHORST Deutsche med Wchnschr 10 6 lu ,53 Notes on a method of induction of labor K. H. HALLAN Med J Australia 1926 11 180

The question of acceleration of the beginning of labor at the end of pregnancy F STREBLER Zentralbl f Gynaek 1026 l 1130

The use of minimal doses of physormon and pitminn for the stimulation of pains H HOELAND Zentralbl f Gynaek 1926 l 662

The effect of thymus extract on the activity of the uterus and its particular use in obstetrics N TEMESVIEY

Zentralbl f Gynaek 10 6 l 322 Experimental studies on the action of thymus extract upon utenne contractions N TENESVARY Riv rtal di

ginec, 1926 1V 465 Synergistic analgesia in labor W J STEVENS Cana

dian M Ass J 1926 TV1 804 The intravenous injection of morphine for the allevia tion of pain duning labor O AUTERMANN Zentralbl f

Gynaek 1926 l 1724 Alleviation of pain during labor by Gwathmey's method and a modification of the method A ECAE and R TAU BERT Zentralbl f Gynaek 1926 l 1111

Rupture of blood vessels in the case of velamentous in sertion before rupture of the membranes G FROMMOLT Zentralbl f Gynaek 1926 l 1131

Di turbances in the frequency of the fetal heart tones duning the first stage of labor W ZANGEMEISTER Zen tralbl f Gynack 1926 l 9

Contribution on the prophylaxis of obstetrical trauma tisms G Serbixoff Gynec et obst 1026 xiv 20 Obstetrical manipulations during labor H JENTTER

Zentralbl f Gynaek 19 6 l 461
The r port faca collabor at full term with malformed vamna MacDiarum Zealand M J 1926 xxv

Transverse presentation with a normal pelvis and normal child F Berke Brit M J 1926 it 388

The ymptoms and etiology of deflection positions II KAMNIKER Monatsschr f Geburtsh u Gynaek 1926

Spontaneous version W Gosser Kentucky M I

19 0 XXIV 359 Forceps ( Cocillan Med J Australia 1976 n 143 Forceps delivery E KLAPTEV and L BODNAR Arch

f Gynack 19 6 extvn 5 8 Ajelland a forceps H Batam Monatsache f Gehurtsh

u Gynaek 19 6 lxxu 284 340 Kjelland's forcep R Schwarcz Bol Soc de ob t

y ginec de Buenos Aires 1026 v 180 The forceps operation with particular reference to kjelland's forceps and its importance for the practicing physician E FREY Muenchen med Webischr 1026 Ixxiii 640

Forceps on the hreach B Voy Váró Monat schr f Geburtsh ti Gynaek 1026 lxxiii 46 High forceps and caesarean section A CALMANN

Zentralbl f Gynaek 1926 l 393

A case of dicepbalus dibrachius dipus causing obstructed labor I IVENS and K EDGECOMBE J Obst & Gynac Brit Emp 1926 xxxiii 293

The cour e of labor in a case of gastroschisis with vertebral curvature in the child B Otrow Zeniralli f Gynack 1026 f 1039

The etiology of lacerations of the uterus with regard to the pathologico-anatomical conditions II Kurtz Zischr f Geburtsh u Gynnek 1926 lyxxix 615 Medicolegal importance of central cervical and vaginal

injuries and the resulting cervical fistula B Orrow Deutsche Ztschr f d ges gerchtl Med 1026 vi

The pelvic floor and parturition R H PARAMORE The mechanism of central ruptures E Sacus Zen tralbl f Gynaek 1926 1 1326

Suture of fresh perineal tears with Michel's clips P Striv Zentralbl f Gynael, 1926 1 682

A medium deep vaginoperineal division for the preven tion of prolapse M HENKEL Zentralbl f Gynael 1926

1,69 A case of postpartum uterine inversion with complete adherence of the placenta P VIANNA Rev de gynec e

dobst 1026 vx 248 A case of acute uterine inversion T A CHAMORRO

Semana méd 1926 xxxiii 142 Utenne tamponade WIENER. Muenchen med Wehn chr 19 6 lxun 284

Biology and pathology of the female A handbook of gynecology and obstetnes J HALBAN and L SEITZ Part 23 and 4 Vol 8 Operative obstetnes G Winter and W Benthin 19 6 Berlin Urban & Schwarzenberg The defects and dangers of publiotomy Alemeratever Zentralbl f Gynael, 1926 I 221 [491

Operative delivery (total abdominal extirpation) in a case of unreduced transverse presentation W ODENTHAL Monatsschr f Geburtsh u Gynaek 1926 lxxiii 40 Casarean section-with reports of three cases

HENDLEY Clin Med 1926 TXXIII 564 Eczema of the vulva and placenta przwia as an indica tion for abdominal expansion section W LIEPMANN

Zentralb! f Gynack 1926 1 405 Seven years of casarean section II Vov BROKEN Monatsschr f Geburtsh u Gymael 1926 kxiii 32

Suprapulse section for chondrodystrophic pelvis Barry Deutsche med Wehnschr 1926 ht ,43 Repeated casarean section in septate uterus A W

TALLANT Atlantic M J 19 6 xxx 7/9
The question of cervical rupture after cervical casarean section M WEITERWALD Zentralbl f Gynael 19 6 l

A suggestion for drainage in casarean ection. S S ROSENFERD Am J Obst & Gynec 1926 to 265
Buth after the death of the mother II HELLENDALL

Zentralbl f Gynaek 19 6 i 412 Embryotomy on the living fetus I B GONZALEZ Bol Soc de obst y ginec de Buenos Aires 1926 v 175

The treatment of the placental period M WUHRMANN Schweiz med Wchnschr 10 6 lv1 415

The avoidance of tearing separation of the membranes BROCK Zentralbl f Gynaek 1926 1 1271

Irregularities of the third period of labor particularly hæmorrhages after labor H Bauter Monatsschr f

Geburtsh u Gynaek 1925 kux 113 A severe genital hæmorrhage from a small placental rest left behind after digital removal W MANDEL Deutsche

med Wchnschr 1926 ln 66 The technique of uterovaginal tamponade J A Beruri Zentralbl f Gynaek 19 6 l 1337

Should one undertake irrigation of the uterus in the

presence of fever intrapartum and during the puerperium? E Zweifer Deutsche med Wchnschr 1926 ln 113

### Puerperium and Its Gomplications

Examination of the placenta particularly with regard to its integrity by means of an air test instead of a milk test H Franken Monateschr I Geburtsh u Gynaek 19 6

lum rr

The hormonostimulation of the milk ecretion H MEXANDER Zentralbl f Gynaek 19 6 l 669

The pathogenesis of the puerperal psychoses MASIERI Riv ital di ginec 19 6 iv 163 [491]

Objective controls of the involution of the abdominal wall in the puerperium H W Sir DENTOPI Monat schr l Geburtsh u Gynaek 1926 lxxiii 175

The etiology of late puerperal hamorrhages E KLAF TEN Zentralbl f Gynaek 19 6 1 474

Ileus following cresarean section P HAGGSTROM Acta obst et gynec Scand 10 6 11 286

The Ruge Philipp virulence test of streptococci F Blake Arch f Gynaek 19 6 extvni 30 Puerperal sepsis M C O Briev Texas State J M

The importance of the degree of sterility in the course of the puerperium H Voy Broich Monats chr f Geburtsh

u Gynaek 1026 lexu 100 Anserobic streptococci their rôle in puerperal inlection O SCHWARZ and W J DIECKMAN South W J 19 6

A note on the treatment of puerperal infection

BEARADWAJ Indian M Gaz 1926 km 397 Intra uterine injection of pure glycerine, an experimental inquiry into the bacteriological basis for the local treat

ment of puerperal sepsis and allied conditions by this means. A COMPTO: Lancet 19 6 CC11 3 6
Staphylo-yatron and strepto-yatron in the treatment of puerperal infections E SCHERER Zentralbi f Gynael.

rg26 l 1384

The report of a cae of submucous myoma in the puerpenum H KAMNIKER Zentralbl f Gynael 19 6

Unusual course of a thrombophlebitis in the puerperium F KERMAUNER Monatsschr f Geburtsh u Gynnek

19 6 lxxiii 188

A case of gangrenous cystitis in the puerperium. M KARLIN Zentralbl f Gynaek 19 6 l 1 05

### Newborn

The technique of cathetenzation of the trachea L Zorn Zentralbl f Gynack 19 6 l 1 0

Interpolated supraventricular extrasystoles in a newborn child J Rmi. Zisch r f d ges exper Med 19 6 l 93 Obstetrical paralysis considerations upon the pathogenesis and treatment R A Rivarola Semana méd

1026 \*\*\*\*\*\*\* 1 7 Two cases of paraparesis in scoliotic infants resulting

from brin trauma G PAGELUANN Wien med Wichn chr., 19 6 lxxv1 608

The cerebrospinal fluid in the newborn A Levisson J GREENGARD and R LIEVENDAIL Am J Dis Child

1926 XXXII 208 Experimental study on the colloidal condition of the erum in the mother and the newborn child G A Bross i

and S Zoccur Clin ostet 1926 vxviii 289 Hamorrhagic di ease of the newborn A A WALKER

Internat J Ned & Surg 19 6 YXXIV 286 The coagulation time and bleeding time in the new

born the effect of prophylactic injections of blood O GROB Am J Dis Child, 19 6 xxvii 00 Gonorrheral infection in a child delivered by casarean section H O NEUMANN Zentralbl f Gynaek 1926 l

Report of a case of general cedema of the fetus from a renal eclamptic mother B L LIEBERMAN Am J Obst & Gynec 19 6 vii 199

### Miscellaneous

Recent advances in obstetrics P Bland J Med Soc V Jersey 10 6 xxmi 381

Legal aspects of obstetrics H M Gushan N York State J M 1926 XXVI 105

The campaign for better obstetrics G C Mosher I Kansas M Soc 10 6 xxv1 46

A question of improvement of the obstetrical develop ment of the physician K REIFFERSCHEID Zentralbl f Gynaek 10 6 l 036 Can we improve on nature in obstetnes when and how?

G. H. Ross. South M. & S. 19 6 INTENTIL 517
Practical points in obstetrics. W. H. RIBBLE. Virginia

M Month 19 6 lui 313 Traumatic intra uterine injury of both arms K FINE

Zentralbl f Gynaek 19 6 l 455
Hæmorrhagic infarction of the uterus and the adnexa

from thrombosis of the abdominal aorta and pelvic arteries T DANISCH Zentralbl f Gynaek 19 6 1 1234

The problem of sterilization and abortion with particular reference to Bayern GRASSL Ztschr f Sevualwissensch 10 6 XII 3 Q 367

# GENITO-URINARY SURGERY

### Adrenal Kidney and Ureter

The effect of the suprarenal glands on the arterial pres sure and pontaneous gangrene of the limbs L STROPENI Ann ital di chir 1926 v 56, Anatomy of the renal pelvis M F I WANTIZKIJ Verhandi

d 16 russ Chir Kong Moscow 19 5 658 [193]
Anomalies of the Lidneys and ureter an attempted cla\_sification E Papin and D N LISENDRATH Arch d mal d reins et d organes genitaux unnaires 1926 ii 4 I Unilateral fused kidney P F Dovonue Minnesota

Med 1026 17 448 Unilateral fused kidney with uterovesical fistula E

Congenital dystopia of the Lidneys H Bauma Mo natsschr f Geburtsh u Gynaek 19 6 Ixxii 213 22,

Lumbar ectopy of the left kidney SALLERAS and BLAKSLEY Rev med de Sevilla 19 6 vln 34

The relation between the work of the heart and the activity of the kidneys FREY 50 Tag d deutsch Ges f Chir Berlin 19 6

Methods of examination in surgical affections of the Lidney VAN DEN BRANDEN Bruxelles-méd 10 6 vi

The Prest Haberer test of renal function I C Leit

MANN 50 Tag d deutsch Ges f Chir Berlin 10 6 The technique of the phenolphthalein test in urinary surgery H BLANC J d'urol méd et chir 1926 xxii 17

The value of the phenolsulphonephthalein test BONADIES Polichin Rome 19 6 txxui sez chir 333 The unnary co-efficient of Ambard urological practice

F GOLDBERGER Zischr f urol Chir, 1926 xix 133

The value of creatininemia in the tudy of renal lun tion S Rotanno I durol med et chir 1926 xxii 5 Contribution to the study of creatiminamia in nephritis

R MENASUT Polichin Rome 10 6 xxviii sez med 34, The unitary nature of impairment of renal function \ \text{V Figure Rec} \text{ Arch Int Med 1926 \text{ \text{TXXIII} 259}

The fluoroscope as an aid to making pyelograms W W Cross J Urol 1926 XVI 3 14931 The demonstration of an unusual pyclogram Janks

50 Tag d deut ch Ges f Chir Berlin 19 6 Subcutaneous injuries of the kidney experimental in

vestigations M \ Mcchart\skij Verhandl d 16 russ Chir kong Mo cow 1925 p 692 [493]
Spontaneous rupture of hydronephrosis R M I E

COMTE J Urol 1926 XV 51, [493] A case of hamorrhagic renal tuberculo is simulating a neoplasm in a child R DARGET J durol med et chir

1926 XTH 60

Report of a remarkable case of recurrent urmary hth 12515 in a physician in active practice with an unbeliev ably mall amount of renal to sue death not from uramia but due to archae failure F HINMAN and T I GIB

50\ 1 Urol 1016 TV1 43 Renal calculos, with cystic dilatation, calcufication, and

pyonephrosis a case difficult of diagno is G TREY's

hiforma med 1946 vin 577 ta e of renal lithia is in a child of 43 cars 1 ASTRALDI lev med de Sevilla 19 6 this 3 13 htis in children G Y GILLESPIE V Orleans M

& 5 [ 10 0 lxx1x 120 Pyelitis in infancy H 1 WRIGHT Canadian M Ass 10 6 XVI 08

The treatment of primary pyclitis and cystopyelitis. A HARTING 1926 B rlin Heymann The treatment f pyeliti and the pyelitis of pregnancy

O A Schwarz Klin Wehn chr 1926 v 362 Atrophic pyel mephritis R Brocklo J d'urol méd

etchir io 6 xui 8 Pyel mephriti its incidence engendering elements and impelling influences JR Calls J trol 1026 xx1 117

The diagnosis and operative treatment of pyonephrosis in infant I BRUING o Tay d deutsch Ges f

Chir Berlin ro 6 Can ex tic kidn vs be diagnosed with certainty? M

tratilian so Tru d deuts he ( e f Chir Berlin 1926 ty tic digeneration of the kidney F Majeron I olichin Pome 10 6 xxviii z med 343 Renal s le obp mato is due to lithin is R Spurg Key ( pecialidade \ oc méd argent 10 6 1 109

Ne re c of the right kidney in arterial emboli m n phr ctomy recesery Divines and Day I durol

med et chir 1026 XXII 54

I calcuted hypernephroma of the kidney report of a ca e lingno ed by \ ray examination with a di cussion of the differential diagno 1 of renal shadows A ARKIN Surg Cynec & Obst 1926 xlin 153

Vea e f pure sarcoma of the kroney Diverges and

Dax J durol med et chir ro 6 xxii 53
Experimental nephrotomie HI Sephrotomy without sutures in dogs with single kidneys W J Carson and

A E GOLDSTEIN J Urol 1926 vs 50, [494] Malformation of the ureter R G Cabren and P Boso Rev Soc argent de biol 1926 n 191

A double right ureter without communication of the passages J Salleras Rev especialidades A oc méd argent 1926 1 140

Dilated ureters C. Donovan and 1 I gers Bol inst de clin quir 10 6 it 188

Pathogenetic and clinical con iderations on ureteral pro lapse K Broglio Riforma med 10 6 thi 653

Ureteral obstruction F McA Moose Mil Surgeon 1026 hx 1.0 Ureteral stricture a cau e of obscure abdominal and

pelvic pun W 1 Hogartir Canadian M A 4 ] 1926 Stone in the preter R L DOURNASHAD N York

State J M 1926 xxv1 733 Induced el mination of a calculus of the upper third of the ureter C VILAR Pev med de Sevilla 1926 xliv 1 Cysto copic removal of ureteral calculi pre entation of a new instrument H I CECIL Texas State J M 1926

TTU 275 I rimary cancer of the ureteral ordice D LISENDRATE and O T SCHUTZ Arch d mal d rems et d organes genriaux urinaires 1926 it 407

### Bladder Urethra and Penis

Case report of foreign body in the bladder ( W. BETHUNT J Urol 1926 XVI 140 Two cases of grant calculus of the bladder I Castano Rev e pecialidades \soc méd argent 10 6 1 118

A twisted fibrous mytoma of the urmary bladder A SATURSKI Zentralbl I Gynaek 1926 1 1180 The treatment of papillomatous tumors of the bladder by electrocoagulation Cholizow Arch d mal d reins

et d organes genitaux un naires 1926 il 410 Intermittent vesical intention W H STEWART Am

Rocatgenol 1920 XXI 169 Vesi al diverticula C. Dónos sy and A. Egues Bol ınst de clin qur 1926 11 190

Cystiti a symptom J P CEISINGER Virginia VI Month 19 6 lin 288 Syphilitic esstiti A Avranovice I durol med et chir 1926 vili 26

Gangrenous cystitis R PRONSTEIN Zischi I urol Chir 1026 xix 181 Blastomy costs of the bladder B W RHAMY I Am

M Ass 1926 ltrran 405 Aspiration in the after treatment of operations on the urinary bladder If B DEVINE Surg (ynec & Obst 19 6 thi 219

A grave accident following urethral cathetenzation I l'agriere Res e pecialidades \soc méd argent 1026 1 130

A foreign body in the wrethra for twenty years M Lopez and J A QUINTING Rev especialidades associated méd argent 1926 i 125 Non specific urethritis L M BEHLIN Urol & Cutan

Rev 1026 TTT 463 Gonorrhoeal rheumatism on the fourth day of acute trethritis P H De Beaufond and I Micron J

d urof med et chir 1926 vvii 60 Calculous competitis M. Lacouterl and R. Botch and

J durol méd et chir 1926 vvii 47 A case of fracture of the penis P Kedi J durol méd

et chir 19 6 xxir 36

### Genital Organs

### The comparative value of renal efficiency tests in patients with enlarged prostates J MARRICK and S ROBINSON

Lancet 1926 cc 1 369 The treatment of prostatic hypertrophy C DE ILYES Arch d mal d reins et d organes génitaux urinaires 1926 II 38 Bropsy of tumors of the prostate A ASTRALDI Rev

especialidades Asoc méd argent 1926 1 84 Removal of prostatic carcinoma by the combined route LAEWEY 50 Tag d deut ch Ges f Chir Berlin 19 6

The control of hamorrhage after prostatectomy by the use of the inflatable rubber bag T MCN MILLAR Brit | Surg 1926 viv, 83

Radium surgers in cancer of the prostate Opping

Pans chir, 10 6 XVIII 142

Complications following prostatectomy J C NEGLEY California & West Med 19 6 xxx 208

Displacement and stricture in the urethra after pios tatectomy JANET and MARION J durol med et chir 10 6 TXII 33

Roentgenography and therapy with iodized oils W T BELFIELD and H C ROLNICK J Am M Ass 19 6 [494]

XXXVI, 1831 Bacteriological studies of the seminal vessels, the significance of spermoculture in latent gonorrhoral infection. C CHIACDANO Gior batteriol e immunol 1926 1 3,0

The use of the tunica vaginalis propria for testing the effect of various drugs O LANZ Deutsche med Wchn schr 1026 ln 611

A method of 'frock button suture in cryptorchidi m Springer Ned Klin 19 6 xvii 648

C SPRINGER Myoma of the gubernaculum testis K BITTPOLFF Deutsche Ztschr f Chir 19 6 CTC1 344

The symptoms and surgical treatment of malignant tumors of the testis A WEISER Zischr f urol Chir

1926 XIX OI The evolution of testicular grafts I I YZZARINI Clin

v lab 1926 vii 453 Diathermy in gonorrhocal epididymitis with a report of eleven ca es O GRANT and I H CUPLER Am I Sure 19 6 ns 1 9

The treatment of gonococcic epididymitis by diathermy P L ROUGAYROL J durol med et chir 1926 vui 32 The operation of Posidas in the treatment of varicocele P CHUTRO Rev de cirug , Buenos Aires 19 6 v 89 The relation of hydrocele to accidental injuries

SCHEELE Deutsche Zischr f Chir 1926 cvc 286
Transparency test of hydrocele E Becker Zentialbl f Chir 19 6 his 462

Tumors of the male sex organs tumors of the scrotum S RUBASCHOW Ztschr f urol Chir 19 6 viv 218

#### Miscellaneous

Rejuvenation M W Theweis Med J & Rec 19 6. CETIL 140

Psychic disturbances of potency M STEINER 1026 I espzig Deuticke

The social problem of venereal di ease. Ars med 1926

Some notes regarding venereal diseases in the industries W M BRUNET Internat J Med & Surg 1926 XXXIX

The importance of genito urinary symptoms T M

Dorsey Utol & Cutan Rev 19 6, TXX 459

The application of modern urological diagnostic methods in pediatrics case reports H W Mckay South M 19 6 TIX 400

Pathological conditions of the urmary tract simulating rbdominal disease J A H Macoun, JR and P W FOSTER Ohio State M J 19 6 xx11 692

Vital straining of the mucous membrane of the unnary Pu sages by lithion carmine W Suchow Zischr f urol

Chir 19 6 xix 97 Пътваторографиянита перот of two cases P E Rothman Am J Dis Child 10 6 таки 210

I cale of paroxysmal hamoglobinima with complete laboratory studies L STROMINGER and M GOTTFRIED I durol med et chir 19 6 xxii 45

Urogenital tuberculosis C G Snaw Med I Australia, 19 6 11 167

Leucoplakia of the unnary tract with reports of one vesical and two renal cases W T BRIGGS and E S MAY WLLL J Usol 196 WII Some reflections on the cancer problem DREW

Zealand M J 1920 txv 11

Arthew of prological surgery A J Scholl L S Judd I D Kriser G S Foulds and J Verbricge Arch Surg 19 6 un 278 A suprapubic dramage cup J A GARDNER J Am M

4 s 10 6 lxxx111 661

A new male genito urinary ba in W W GOLDNAMER
J Am M Ass 19 6 lxxxvii 660

# SURGERY OF THE BONES, JOINTS, MUSCLES, TENDONS

### Conditions of the Bones Joints Muscles Tendons Etc

The postural development of infants with special refer ence to the function of walking and proper shoeing Sweft California & West Med 10 6 xxv 181

Textbook of roentgen diagnosis for practitioners and students II Injuries and diseases of the bones and joints J SCHUETZE 1926 Stuttgart Enke

pecial provi ion for orthopedic case J W Sever Mod Hosp 19 6 xxvii 13

The dependence of bone upon the circulation of blood WUELLER 50 Tag d deutsch Ges f Chir Berlin

Bone regeneration and function H BURCLHARDT 50 Tag d deutsch Ges f Chir Berlin 19 6

Principles of bone metamorphosis and Schult, s osteo clasts | Rey Ztschr f Krueppelfuersoige 1926 vit 6 ecrosis of the epiphysis Kappis Zentralbl f Chir 19 6 lui 1067

Affections of the epiphyses peculiar to the second decade I BALENSWEIG Med J & Rec 19 6 CXXIV 144 Functional examination of the bony medulla R ANTON cica Crón méd Lima 1926 vlin 3 33 65

Acute progenic infections of the bones and joints E D FENNER N Oileans M & S J 19 6 lexix 83

A case of fibrocystic osteitis of malignant evolution G Novi Jossenand Rev dorthop 1926 TTTH 303 Paget s disease of the bones (osteitis deformans) H I GOLDSTEIN L GOLDSTEIN and H Z GOLDSTEIN Med

Times 19 6 liv 194 The unusual cour e of a case of chronic osteomyelitis

E STHINKE Arch f Llin Chir, 1926 CXXXIX 4 8 Chronic sdently progressive osteomyelitis with curva

tures E BERGMANN 50 Tag d deutsch Ges f Chir, Berlin 196 The correlation of the identgenographic evidence with

the clinical and pathological facts in acute osteomyelitis A O WILENSKY Am J Roentgenol 1926 TV1 123

Bone cysts and syphilis R NISSEN Deutsche Ztschr f Chir 19 6 exciv 398

Limits of surgery in the treatment of bone and joint tuberculosis operative indications and contra indications COURBOULES Rev de chir Par 19 6 vlv 30

Osteochondritis dissecans I KOENIG 50 Tag d deutsch Ges f Chir Berlin 19 6

Osteochondritis joint mice J C Lehmann 50 Tag d deutsch Ges f Chii Berlin 19 6

Multiple enchondromata W Writner Beitr z klin. Chir roz6 cxxxvi 506

Ossifying harmatomats J R Ortega Clin y lab

Ossilying harmatomata J R Orriega Clin y and ro 6 xii 486
A form of bony lesion intermediate between myelo

playomata and bone cysts TAVERNIER Bull et mem Soc nat de chir rg26 lu r7 [496] Pulsating tumors of the bones with particular reference

Fulsating tumors of the bones with particular reference to metastases of hypernephroma in the skeleton R Alessander Policlin Rome 1926 vxun sez chir 273 The question of development of bone sarcoma I

RUSZYNŚKI Aerztł Monatsschr 1926 p 108
Diagnosis and results in the radiation treatment of some medullary bone tumors R L Herendeen Radiology

reduitary bone tumors in the research reducing rock of the rock returned in the Comparison of conservative and radical method in the

treatment of primary bone tumors P A HUET J de chir r926 xxvii r Pernicious hygroma FORNI Chir d organi dr movi

mento 1926 x 554
The destruction of Lexer's bone peg in the joint space

Tu Yin Pan Arch I kim Chir 1926 exxix 191

The value of the roentgen examination in the differentiation of the various forms of arthritis Limiteria and

LAQUEUR Fortschr a d Geb d Roentgenstrahlen 1926
TELEVIEUR FORTSCH A GEB D ROENTGENSTRAHLEN 1926
Tuberculous osteo arthritis C P LAVALLE Semana

med 1926 txtill ro

The treatment of acute suppurative arthritis G A
CALDWELL South M J rg 6 xix 637
The significance and use of diet in the treatment of

chronic arthritis R PEMBERTOV N York State J M
10 6 XXV1 668
P eudohypertrophic mu cular paralysi preliminary re

port of a clinical study of thirty nine cases P Lewin J

Am M Ass 19 6 lyryin 399
Progressis e muscular degeneration as a result of anaphylactic it sue changes in a case of primary granuloma of the bone marrow 1 Scriyin) Berti 2 klin Chir 1925

Curther notes on a case of multiple myomata. H S

MENDE Irish J M Sc 1926 p 3 3
A study of the po tenor region of the arm A Gutter
RREZ Rev de cirug Buenos hires 1926 v 256

A solitary pla mo ytoma in the lower end of the humer us J Arci Bol inst de clin quir 10 6 11 77; Osteosarcoma of the humeru A Incertage Bol

Soc de cirug de Chil 19 6 is 93 Congenital symostosis of the humerus and radius occur ring in three children in one family P B Porti Proc Ros Soc Med Lond 19 6 xix Sect Orthop 51 Pupture of the extensor pollicis longus C K Barkets

J Am M As 19 ( Ferror 113 Localized tuberculous arthritis of the wist in children E Sorrer Bull et mém Soc nat de chir 1926 hr 86

Hydatid tyst of the flexor profundus muscle of the hand A GUTIERREZ Rev de circig Buenos Arres 1926 v 286 Congenital contracture of the palm J M Josep Rev d orthop 19 6 vvvii 9, 1946

d orthop 10 6 vector 9.

A contribution in the theory of the inheritance of Dupuytren's contracture of the finger G Sproous Deutsche Ztschr i Chir 19 c vecto 250

A ca e of intramuscular lipoma of the latissumus dorsi

L M Moriconi Polichin Rome 19 6 xxviii sez chir 366 Klippel Fell syndr me in a child of 14 years P INCEL

RIVS Rev dorth pr 10 6 xrvin 333

Roentgenography of the pinal column Argullies

Prog de la clin Mad id 19 6 tr 51

Backache Irom the radiological a pect with special reference to the demonstration of the earlier more acute stages of spondylitis deformans K S Cross Med J Australia 1926 if r.jr

Anomalies disca es and mjunes of the spine J P
KERBY California & West Med 1926 xxy 196
The resultanguage of constant anomalies of the

The roentgenology of congenital anomalies of the pine Perussia Chir d organi di movimento 19 6 x 614 Adolescent curvatures of the spine J Kochs Arch (

orthop u Unfall Chr 1926 xxiv 95
Alternating scolosis M MAYER and C Testu Bull et mem Soc med d h p de Par 1926 xlu 124 [497]
Spondylitus of upper cervical vertebre including the allas and axis with cord compression typhord organ R

atlis and axis with cord compression typhord origin R
N IRONSme and I M R WAISHE I roc Roy See Med
Lond 1926 xxx Sect Neurol 9

The early diagnosis of tuberculous spondylitis Quirin Tuberkulose 1926 vi 10

Tuberculosis of the pine early diagnosis and treatment H C TRUBBER. Med J Australia 19 6 in 238 Congenital malformation of the line fossa with wedge malformation of the lumbar vertebra. Andreasy Zitchi

f orthop Chir 19 6 xlvu 64
Report of two osteoclastic tumors of the bony pelvis
M M Poservax Am I Surg 1026 ns 1 of

M M POSEREAL Am J Surg 1926 ns 1 98 The etuology of Perthes disease of the lun and of Koch lers die as e of the metatarsus W BRILL. Arch f orthep u Unfall Chir 1926 XXII 64 The early and late stages of juvenile deforming osteo

chondritis of the hip O POLLURIN Beitr 2 klin Chir 1926 CUXW 603

Arthritis deformans of the hip caused by a fire arm

moury metallic infiltration of the synovial capsule TAL DEM Chir d organi di movimento 1936 x 586 Traumatic chondropathy of the patella H Fretyn Zentralbi f Chir 1936 lim 07

Foreign bodies in the knee and traumatic lesions in the meniscus DEICHEF J de chir et ann Soc belge de chir 1926 xxv xxu :
Supracondylar nearthrosis of the knee STANISCHEFF

50 Tag d deutsch Ges f Chir Berlin 1926
An unusual ca e of torn internal menuscus of the knee
T I ANGRORN Brit J Surg 19 6 th 185

r I Androne But J Surg 19 6 av 185 A paralytic knee Frontich Rev dorthop 19 6 Exum 69 Non-operative measures for disabilities of the knee

O GECKELER Hahneman Month 1926 Iti 491
A method of orthopedic study of the Isot M FRIED-LAND Arch f orthop u Unfall Chir 1926 Tav 34
Pes casus its development and treatment M HACK

ENREOUR 1926 Berlin Springer Arch f orthop u Unfall Chir 1926 xxii 14 A metatarsal bracelet for the treatment of static meta

tarsalgia m metatarsal flat foot H Torestier Pev dorthop 19 6 xxxiii 349 Apainful calcaneal spur A Gutterrez Rev de cirug

Buenos Aires 1926 v 287

### Surgery of the Bones Joints Muscles Tendons Etc

The present status and the luture of joint surgery E PAYR Zentralbl I Chir 1926 hin 842

Expenences with prosthesis m industrial workers F WLTTE Aeratl Monatsschr 1925 p 296 The open treatment of osseous tuberculosis by Solien s

method L Carrecus Polician Rome 19 6 xxus sex prat tor4

The repair of bony cavities in children E Sorrel

Bull et mem Soc nat de Chir ro26 ln 360

The filling up of holes in bone OEHLECKER 50 Tag d deutsch Ges f Chir Berlin 1926 Pseudarthrosis operated upon and cured by Lirschner's

osteoplastic method O KLEINSCHMIDT Zentralbl f Chir, 1926, lui, 1041 Amputations E SATTLER Ztschr f orthop Chir 19 6 xlvn 68

Experimental studies on fat emboli after orthopedic operations T Yoshiwasu Arch f japan Chir 19 6 ш No э

The question of fat embolism after orthopedic operations M Schwimm Zentralbl f Chir 1926 lin 395

The treatment of primary and secondary arthritis de formans constitutional pathology of the joints E PAYR Beitr z klin Chir, 19 6 cxxxvi 260

Inkylosis of the elbow joint P P Grosso J Am M

Ass 1926 LXXXVII, 659

Conservation in the treatment of hand injuries D C DURMAN J Michigan State M Soc 19 6 27V 381 Combined muscle transplants in paralysis of the deltoid G Boscu Arana Rev de cirug Buenos Aires 19 6 v

Muscle plastic operations for deltoid paralysis RIEDI E.

Zentralbl f Chir 1926 lin 1021

Scapulopery in a case of primary muscle atrophy MARCONT Chir d organi di movimento 10 6 7 560 Interscapulothoracic and interilio abdominal amputa tions T Osawa Arch f japan Chir 19 6 m No 2

Compensation vs correction in the treatment of struc tural scoliosis A STEINDLER J Bone & Joint Surg

19 6, VIII 570

Bone implantation in vertebral tuberculosis B KIPVIS

Deutsche Ztschr f Chir 1026 cvciv 325

The indications for and the technique of bone grafting in Pott's disease in adults J CREASSEL Arch franco belges de cbir 19 6 xxix 246

A preliminary report of twenty cases of hip joint tuber culosis treated by an operation devised to eliminate motion hy fusing the joint R A HIBBS J Bone & Joint Surg

1926 VIII 52 Re attachment of the torn anterior crucial ligament of the knee joint G PERTHES Zentralbl f Chir 19 6, liu

A case of congenital pseudarthrosis of both bones of the leg cured by a bone graft S SATANONSLY Rev de cirug

Buenos Aires, 1926 v 277 A dressing for use after osteotomies of the lower ex-

tremity M LANGE Ztschr f orthop Chir 1926 tlvu Orthopedic care I The artificial leg M BOEHM 19 6

Berlin Hobbing Arthrodesis of the ankle joint and tarsal joints E

BOUVIER Arch f orthop u Unfall Chir 19 6 xxiv 46 A poor Listranc stump and its orthopedic care H Vox RENESSE Arch f orthop u Unfall Chir 1926 vviv 50 The operative treatment of paralytic feet E B Mum

FORD J Indiana State M Ass 19 6 VIV 309
The treatment of pes cavus H Schulze Gocht Arch

f orthop u Unfall Chir, 19 6 xxiv 19 Five cases of acquired pes cavus with metatarsus varus

corrected by antetarsal cuneiform resection A Cov TARCYRIS Rev dorthop 1926, xxviii 343 The removal of hammer toes by justacapital resection of

the proximal phalanx K BRAGARD Zischr f orthop Chir 1926 xlvii 283

#### Fractures and Dislocations

Fracture and tetany F DEMMER Wien med Wchn schr, 1926 lxxv1 581

Fractures in the aged W DARRACH Am J Surg 1926 ns 1 37

A type of complicated fracture P PARA Policin. Rome to 6 vvviii sez prat 072

The management of the more common fractures A W ALLEN Boston M & S J, 1926 CTCV 299

Problems in the treatment of fractures H Marri Deutsche med Wehnschr 19 6 hr 607

Difficulties in the reduction of fractures of the long bones and the principles of treatment J A BLAKE Am J Surg 1926, n s 1 40

When is the operative treatment of fractures of the long bones justified? C L Scupper Am I Surg , 10 6 ns 1 43

Bone fixation by two crossed ligatures POLLIDORI Chir d organi di movimento 1926 x 577

The treatment of fractures (intra articular fractures) 1 WITTER Deutsche Ztschr f Chir 1926 cvcv 42

The operative treatment of para articular and intra articular fractures LUDLOFF Zentralbl f Chir 19 6 bu 1010

Primary suture of complicated fractures lag d deutsch Ges f Chir Berlin 19 6

A three tube extension apparatus in the treatment of fractures D KULENKAMPFF Zentralbl f Chir 1926 lu 1298

A traction weight device D Gordon Am J Surg 196 nsı b

The cause and the treatment of non-union I M HITZROT Am J Surg 19 6 ns 1 50

Arterial decortication in retarding the consolidation of fractures L STROPENI Arch ital dichir 1926 xv 661 Studies upon the influence of avitaminosis on the heal

ing of fractures A ISRAEL and R FRAENKEL Klin Wchnschr 1926 \ 94
Avitaminosis and the healing of fractures
Tag d deutsch Ges f Chir Berlin 19 6

kemoving splints and braces from the patient L S

GLIST J Am M Ass 1926 LXXXVII 486 Fractures of the surgical neck and epiphyseal separa

tions of upper end of humerus H E CONWELL J Bone & Joint Surg 19 6 vin 509 ambulatory treatment of fractures of the arm and of the

elbow joint M BORCHARDT Deutsche med Wchnschr 1026 lu 80 The open treatment of fractures of the lower end of the

humerus in children C Colucci Policlin Rome 10 6 Total external luxation of the elhow PLISSON and ROU

VILLOIS Bull et mem Soc nat de chir 1926 li 1109 [498] Divergent luvation of the heads of the radius and ulna

G COLLE Arch stal dichir 1926 vv 6% A case of anterior dislocation of the semilunar bone

I H M FROBISHER J Roy Army Med Corps Lond 1026 xlvn 134 Fracture of the scaphoid with dorsal dislocation of the

distal fragment of that bone and of the distal carpal row

A B CLERY Irish J M Sc 1926 p 37

Dorsal luxation of the first joint of the second and fifth fingers R PROSKE Beitr z lin Chir 1926, cxxxv1 5 8 An unusual cause of the luvation fracture of the verte

brae D GIORGACOPULO Zentralbl f Chir 1926 lin 533 Compression fractures of the vertebræ treatment with a plaster corset M SCHIESSL Muenchen med Wchnschr 1926 lanu 285

Compression fracture of the vertebræ and Kuemmell's disease Ploos van Amstel and P J de Brûine Monatsschi i Unfallheilk u Versicherungsmed, 19 5 xxxxx 2 9 241 80 and 1926 xxxxx 2

Pathological subluxation of the sacro-thac articulation Mrzzart Chir d organi di movimento 1926 x 605

The etiology and prophylaxis of congenital dislocation of the hip [1] KRI KENERG Monatsschr f Geburtsh u Cynnel. 19 6 Ir 11 293.

A case of congenital dislocation of both hips treated by

the bifurcation operation R C ELISERE Proc Roy Soc Med Lond 1946 xix Sect Orthop 52 The open operation for congenital dislocation of the hip

The open operation for congenital dislocation of the hip pull reference to results. H. P. H. GALLOWAY. J. Bone 8. Joint Surg. 1026, Apr. 539.

& Joint Surg 1926 vin 539 Congenital dislocation of the hip a report of 310 cases treated at the New York Orthopædic Dispensity and Hospital B P Tarrel, H L vo Victoria and A pr Surg I Bone & Joint Surg 10 5 vin 557 Tochantico Judyised Intactures R Monoo Rev de

Trochantero inaphyseal fractures R Monon Rev de chir Par 1926 th 5 The bolting of medial fractures of the femoral neck

The bolting of medial ffactures of the fermoral neck CF & kocii Deutsche med Wehnschr 1926 in 612 Fracture of the fermoral shaft H klals J Vied Soc N Jersey 1926 Vull 193

Separation of the epiphysis of the lesser trochanter of the femur report of a case H D SONERSCHEIN Im

J Surg 10 6 n 8 1 104
The treatment of fractures of the thigh Schriffler
to Tag d deut ch (es f Chir Berlin 1926
The operative treatment of ununited fracture at the hip

A simple method of measuring the height of a trochanter

L Brocker Zischr f orthop Chir 1926 Alvu 321

Demonstration of a new prosthesis for the thigh Kofil LIAER 50 Tag d deut ch Ces f Chir Berbn 19 6 Pathological dislocation of the patella Zanoli Chir

A method for the immediate treatment of the fractured patella F P Corrigon I Am M Ass 1926 traying

408
Fracture of the «tyloid apophysis of the tibla T Pkg
BYN and K Langy Rev dorthop 1926 vxiii 323
Varieties of fractures of the provintal epiphysis of the
tibla B Maser Toll in Rome 1926 vxiii see prat

969
Intra uterine fracture of the leg and its treatment by an implantation graft O F Schulz Rev d orthop 1926 xxxii 311

A flexible knee traction splint for the lower limb K. H. Dight, Surg. Gynec & Obst. 1926 viii. 207

Diens Surg Gynec & Obst 1926 thu 207
Auniver alleg splint according to Braun's principle
CREWNA Ceneesk Tijdschr v Nederlandsch Ind 1925

IN 540
The treatment of fractures of the leg by sole extension
H Marker Muenchen med Wehnschr 10 6 lyzin 239
The treatment of imperiencely consolidated bimalleolar
fractures Courty and ALOLANE Bull et m'm Soc nat.

de chir 1926 li 1129
Total backward juvation of the metatarsus TREVB Bull et mêm Soc d chirurgiens de lar 1926 xviu 432
Vease of levatson of the tarisl scaphod with fractured the scaphod cuboid and cunciform ROYDER and ROLLEND REV dorthop 196 xxiu 332

# SURGERY OF THE BLOOD AND LYMPH SYSTEMS

### Blood Lessels

Mi croscopic tudies on capillars innervation and staining of the endothelial cells. I S BARKEDAIR J Lab & Clin Med 1920 XI 1923

The innervation of the blood ve sels of the lower extremity. I Braissen this sammely a proposed that the klin u d Int f Kreb forsch. I Moskauer Staat unit 19, 3, 3, 4

to 3 il 1 1499)
some rimifications of the deep epigastric ritery and
their ignituance. A Bettie Study assarts. Sassart
to c il 93
compenial art novenous (study. D. Lewis. Deutsche.

med Wehnschr 19 o lu (19

Myestic aneurs m a report of two case R D LEAS
and H > THATCHER Arch Int Med 19 o xxxxiii

Lupture of an aortic aneurism into the superior year

can a report of the two cases 14 Harrman and W. D. Levy. South M. J. 10 of xx 505.

The curr of a rigantic traumatic antenosenous aneuri m of the abdominal aorta and the inferior yena cana by the

Moore Corradi method V M GEICORJEW Novyjehr arch 1925 viii 23. [499] Changes in the arterial media in pontaneous gangrene and their relation to dishetes II BORGHAPDT 1rch f

and their relation to dishetes. If Borchappt Arch f path Anat. 19 6 cclus. Find arterial new blood vessel formation. If Borchappt

Arch f path Anat 19 f celer 3 3
Clinical and experimental tudie on Payr's magnesium
point treatment of annomata 1 Grass Deutsche

Zwehr f Chir 1926 exciv 35 Air embolism following a uperficial incision in the neck & Bouturer Deut che Zwehr f d ges genehil Med 1926 Vil 150 Fat embols F I vypois Deutsche med Wchnschr 19 6 lit 283 Traumatic thrombosi C Prixi Zentralbi I Chir

19 6 lim 65r
The importance of the endothelium in the development

of senous thrombous. A RITTER 19 6 Jenu Fischer.
The part played by the congulability of the blood in the
development of postoperative philotiis. Charavity. I Sur.
Name and Java. Cynée et obst. 1920 xml. 223 [499]

Changes in the blood pressure under the influence of operations D T TOLETROFF Verhand d 16 rus Chir Kong Moscow 197, p 159
A di cuv ion on the blood pressure in the veins of the bower extremities L Schort Vienchen med Wichnschr

1926 leval 227
The etiology pathogeness and histological structure of varices I Lemann Frankfurt Zt the I Path 1925

Yartin 300 Caphenous variet simulating a femoral herma G G

Miller Crandian \( \) \\ \lambda \text{1ss J is 6 xs1 \forall \text{908}} \\
\text{Vances and crural ulcer \( \) \text{Perliz Wien med}

Wehnschr 1926 Prvi 308 460 491
The treatment of peripheral vascular disturbances of the extremities G E Brown J Im M As 1926 Prvxi 1500]

### Blood Transfusion

The importance of hæmatology in surgery A PINEY But J Surg 1926 1929 Changes in the records of the blood under the influence

Changes in the viscosity of the blood under the influence of an esthesia and operation D T Opixow Verhandl d 16 russ Chir Kong Moscow 1925 p 158 [501]

The effect of operation upon the changes in the coagult bility of the blood L. J. Visner Verhandl d. 16 russ Chur Kong. Moscow. 1925 p. 156 [501]

The effect of operation and narcosis on the calcium content of the blood P G SSAKAJAN Verhandl d 16 russ Chir Kong, Moscow, 1925 p 160 [501]

The change in the catalase index of the blood under the influence of surgical operations P G MELIKOW Ver handl d 16 russ Chir kong Moscow 19 5 p 159 [501] Sedimentation reaction of crythrocytes W H Mos

Sedimentation reaction of crythrocytes W H More Ress and E H Rubin J Lab & Clin Med 19 6 Xi 1045. The changes in the number of leucocytes and the leucocyt formula during the postoperative period 1 I Rubinoport Verhandl d 16 russ Chir Kong Moscow 19 5

p 150
The changes in the number of the cry throcytes and blood platelets during the postoperative period W I Solkou. orr and N L GLADYREWSKY Verhandl d 16 INS. Chr. Kong Moccow 1025 p 153.

Infectious mononucleosis S W Sappington Hahne

The hamorrhagic diathesis angio statis H I Tipy

Lancet 1926 ccx1 363

Hæmophilis with the Volkmann syndrome report of a

Hemophilia with the Volkmann syndrome report of a case J P LORD J Am M Ass 19 6 Lxxxiii 406
Recent advances in hæmatology 4 The value of sple
nectomy in purpura hæmorrhagica E S Mills Canadian

M Ass J 1926 TV1 957

Pain as a symptom of internal homorrhage I GRAIF

Arch f klin Chir 19 6 cvl 608

Transfusion in the treatment of anamin W W DUKE Med Herald & Physiotherap 19 6 xlv 199 The results of treatment of pernicious anamia by radium

I TOMANER But J Radiol 19 6 XXXI 98
Leucopenic anomia of the regenerative type due to ex

posure to radium and mesothorium G S REITTER and H S MARILAND Am J Rochtgenol 1926 xv1 161

Blood transfusion B Breitner 19 6 Vienna

A new puncture and transfusion instrument F Marr klin Wchnschr, 1926 v 294 Blood transfusions in gynecology H Schultipliss

Zischr f Geburtsh u Gynaek 1926 lxxxix 5,0

The technique of blood transfusion P C Girson

Lancet 1926 ccvi 375
A new method of blood transfusion J J Donanue

A new method of blood transfusion J J Donarde J Am M Ass, 1926 Investigates 488
A simplified technique for blood transfusion by the

Kimpton Brown method W B CABRIEL Lancet 1926 ccx 1255 [502] The life duration of directly transfu ed red blood cells

H WILDEGARS Arch f kin Chir 19 6 CYXIX 135
The causes of reactions following blood transfusion F
S Korganowa Muttler Russkaja kin 19 5 iv 46

A modification of the Thalhimer apparatus for the slow intravenous injection of glucose and saline solutions G T PACK I I ab & Clin Med 1926 x 1904

## Lampli Vessels and Glands

The effect of the extirpation of normal lympli nodes on the lymphatic appuratus and the tissue at the site of operation. H. Baur. Deutsche Zischr f. Chir. 1926. cccv. 241. The etology and treatment of congenital elephantansis.

M S KEROPIJAN Deutsche Ztschr f Chir 1926 cycly

Unusual manifestations of lymphoblastoma G W Holurs Am I Roentgenol 10 6 XVI 107

A case of lymphogranulomatosis accompanied by in creased cosmophilia M Boxano Policlin Kome 10 6 xxxiii sez prat 1008

Lymphogranulomatosis in infancy M Acuna and A (18186) Semana med 1926 xxxiii 48
Hed line duesse in man and in animale. Polisting

Hodokin's disease in man and in animals Policlin Rime ro 6 xxxiii sez prat, 799

The use of intravenous injections of radium chloride in some of the malignant lymphomata R H STEVENS Am J Roentgenol 19 6 vvi r55

# SURGICAL IECHNIQUE

Operative Surgery and Technique Postoperative Treatment

Evaluation of risk in gastric surgery C W Moore Brit M J 10 6 ii 205

New methods of maintaining and re establishing the strength of patients before operations G W CRILE Deutsche med Wchnschr 1920 lii 636

The extraction of needles and barbs as foreign bodies

O SUSANI Zentralbl f Chir 19 6 lui 791

The art and science of plastic surgery J S DAVIS

Ann Surg, 79 6 EXXIV -03
The interrupted tube flap J P Dr Kiver J Am M

Ass 19 6 lxxvii 662
Discussion on plastic operations on the face in the region

Discussion on plastic operations on the face in the region of the eye H S SOUTTAR A W ORMOVD T P KILLER G H POLICE, and others Proc Roy Soc Med Lond 1926 xix Sect Ophth 14 [504]

The etiology and incidence of thermal burns G T PACK Am J Surg 19 6 n s 1 21 The operative treatment of extensive scar tissue con tractions due to burns by Morestin s method F Bouvirk

Arch I orthop u Unfall Chir 1926 xxiv 151
Surgical observations on the question of herpes H
CHROEDER Deutsche Ztschr I Chir 1926 cxiv 338
The operability of so called fetal inclusions M Buddle

50 Tag d deutsch Ges f Chir Berlin 1926

l igation of the liac artery as the first stage in disarticulation to the hip for extensive sarcoma of the thigh F Lator Bull et mcm Soc nat de thir 19 o lin 340 Errors and dangers in surgery E Hesse Zentralbl f Chir 19 o lin 1800

Errors and dangers in operative procedures C PERTHES Zentralbl f Chir 10 6 hin 88,

Life saving ci ternal injection of callein in a case of central interruption of respiration D KULI NAMPET Zentralbl f inn Med 19 0 dvii 34r

Adrealm in cardac arrest J Livingston But M

Adrenalin in cardiac arrest J I iVINGSTON But MI 1920 ii 383

Recovery after massage of the heart R M GLOVER Brit M J 19 6 11 342

Some experiment on the conduct and fate of a ligature made from the parietal peritoneum of the ox when implant ed in living tissue Sir C Ballance Lancet 19 6 cxi.

Formalm catgut L FRANCKEL Zentralbl f Chir

Postoperative treatment C STAJANO An Fac de med Univ de Montevideo 19 6 vi 148

The prophylaxis and postoperative treatment of tetany BADER 50 Tag d deutsch Ges f Chir Berlin 10 6 A one man apparatus for intravenous saline infusion P BARDHAN and S K I ALIT Indian M Gaz 19 6 Ivi 394

The rehabilitation of the surgical patient through biochemical methods with special reference to diabetes W J Mayo Ann Surg ro 6 lextiv 152

I ostoperative massive atelecta is M F TADES Boston

11 & S J 19 6 ever 238 Peffer blood pressure changes associated with operative

procedures \ Schaefer Deutsche Ztschr f Chri 19 6 CTCV 217

The question of draininge in so-called clean wound L MAYERSBACH Zentralbl f Chir 1926 lm 1046 Dramage with gutta percha G Lotileiser Zentralbl

f Chir 1026 lai 467 The que tion of the material for drainage (ten years ex

persence with colloyylin drains) S SOFOTEROFF Zentral bl f Chir 1926 lii 601 The treatment of postoperative urinary retention Γ Βιοχούο La Rossa Rassegna internaz di chin e terap

1926 VII 412 l ilocarpine in postoperative unnary retention Piforma

med 19 6 vlu 534 Bacteremia after surgical procedures E SEIFERT Verhandl d phys med Gesellsch 1925 I 181

Antiseptic Surgery Treatment of Wounds and Infections

Wound complications L & FEEGUSON Therapeutic Gaz 10 6 | 541

Sudden death after a primo injection of antitetanic se rum I DEROIDE Med Press 10 6 n s cxxu 12, I new method of combating septic processes I ECKE

Zentralbi f Cynael 19 5 zhe 6 6 Can a morphological blood picture be u ed in the deter mination of the value of methods of wound treatment?
RITTER and KLINGENFLSS Kim W hischr 10 0 5 224
Autoblood therapy W MILL Zentralbl f Chir 19 6

Local vaccine therapy and rts particular importance for surgery J CITRE V and H PICARD Med Klin 1925 Ttl

The active general specific and non specific treatment

of surgical erysipelas of the head and its similes Birth 11 117 Deutsche med Wehnsche 19 6 ln 02

The treatment of acute secondary inflammations I The treatment of anthray Wantsere Zentralbl i Chir ro ( litt r 50

The treatment of anthrax by circumsenbring the pustules with blood according to Liewen's method I RB 50 Tag

d deutsch (es f Chir Berlin 1926 Our experiences with rivanol with remarks upon Japanese myo itis F HAERTEL and A LAUTERBACH Horwitz Deutsche Zischr f Chir 1926 excv 120

The effect of the hydrogen ion concentration upon the antiseptic activity of liver preparations I Ryri Acta Soc med Fennicæ Duodecum 1926 vii Fasc 2

Is it possible to influence ulcerative endocarditis or mili sepsis by extrapation of the spleen' F HEILBORN Med Klm 1926 xxu 535

#### Anæsthesia

What anæsthesia records show J A Blezard Cana dıan M Ass J 19 6 XVI 704 Choice of the anaesthetic W WEBSTER Canadian W

Ass I 1926 TH 947 Ralanced anzisthesia J S I LVD\ Minnesota Med 1926 11 399

Ceneral combined and regional anaesthesia in abdomi nal surgery H FINSTERER Brit M J 1026 ii 200

Ethernarcosts E Sattles Fortschr d Therap 1026

A fatal case of ether narcosis MEYER Deutsche Ztschr I d ges gerichtl Med 1926 vii 46r Pulmonary complications following ether and ethylene

ether anzethesia J S Luxby Med J & Rec 10 6 Nrtrous oude anasthesia status epilepticus lumbar puncture recovery C W HE LEY Brit M J 1926 ii

Ludotracheal mitrous oxide-oxygen-ether anasthesia in gastric surgery C L Hewer Brit M J 1926 11 99 Acetylene ovygen anæsthesia in gastric surgery Brandt Brit VI J 1926 u 297

The danger of explosion in narcylen anasthesia P OERLECKER Zentralbi f Chir 1926 lin 7,4

Experiences of three years with solvesthin a general nar cotic \ Weiss Zentraibl f Chir 19 6 in 989 Our present knowledge of procain with a brief report on experimental carotid injection of the drug C M Houses Laryngoscope 1926 xxxvi 58,

Intravenous somnifene anasthesia in gastro inte tinal surgery I Macdonald Brit M J 19 6 ii 301

The toricities of local annesthetics II C HAMILTON J Lab & Clin Med 1926 vi 1082 The lack of substitutes for customary local an esthetics

T KAZDA Zentralbl f Chir 19 6 lm 5 6 Diffusion of the local annesthetic R F Liesegand Numchen med Wehn chr 2926 IXXII 320 Insethesia of the brachial plexus If W S WRIGHT

Brit J Surg 19 6 TIS 160 Sprind anasthe in G D F McFaddes Med Pres

1926 BS CYXII 110 The question of spinal analgesia M P Delmas Rev argent de obst y ginec 196 v 12

Spinal anasthesia in surgery J ARCE Bol inst d clin quir 1926 ii 163 I series of more than 1 000 cases of spinal anaesthesis

R Beograp Arch stal dichir 10 6 v. 639 Experiences with lumbar anasthesia K WARNEGAE Zentrafbl f Gynael 192, thr 276,

Tutocam as a lumbar anxithetic E Vov Koveno Zentralbl f Gynael. 1926 1 366

# PHYSICOCHEMICAL METHODS IN SURGERY

## Roentgenology

I ducating the practicing physician as to the value of radiology H Swanberg Chicago M Pec 1926 xlum

Important considerations in planning an \ ray depart ment P M HICKEY Radiology 1926 VII 104 In indexing system for the cataloging of pathological films L R SANTE Radiology 1920 vii 149

The X ray diagnosis of hydatid ANDERSON X Zea land M J 19 6 xxv 203

The \ ray diagnosis of animal parasites (helminthes) in man J F BRAILSFORD Proc Roy Soc Med Lond 1926 xix Sect Elect Therap 41

Textbook of radiation therapy II Mayer III The subject of radiation therapy in internal medicine f GLEZENT and H HOLTHUSEN 19 6 Berlin Urban and Schwarzenberg

The physical and technical bases of roentgen theraps G GROSSMANN Strahlentherapie Sonderbd 102, 17 1 Experimental investigations upon the distribution of the

intensity of radium rays in the human body L. MATER Strahlentherapie 19 6, vvi 480

The problem of the distribution of radium rays in the radiated medium O BORNHAUSER and H HOPLFELDER Strahlentherapie, 1926 xx1 494

Comparison between German and French roentsen units H H CARELLI and T VIERHELLER Strahlentherapie

1026 XXI, 468

The evaluation of stimulative roentgen therapy in cer tain surgical and neurocirculatory diseases H B Phinips Radiology 10 6 vu 100

Experimental studies on the combined effects of roentgen rays and ultra violet rays G E PFUILER J V KLAUDER and J L MARTIN Am J Roentgenol 19 6 vii 150 The biological action of the roentgen rays M NEWENOR

Strahlentherapie 19 6 vx 99

The time factor in roentgen radiation H HOLTHUSEN Strahlentherapie 1926, xx1 275

The treatment of todent ulcers by radiation R W LEWIS Ann Surg 1926 levely, 233

The treatment of cancer with the \ rays and radium MY MARSHALL Kentucky M J 1026 XXIV 373 Irradiation treatment of sarcoma H Hueci

klin Chir 1926 CTXXIX 607 [507]

Dosimetry in deep roentgen therapy F BARD scitzi and P EPSTEIN Strahlentherapie 19 6 XXI 419 Some practical considerations in the application of deep

mentgen therapy to the treatment of malignant disease " L MATTICK Radiology, 19 6 vii t 15071

A method for the study of scattered and secondary radiation in roentgen ray and radium laboratories | EDITH M QUIMLEY Radiology 1926 VII 211

### Radium

The hiological effect of radium C F CHARLTON Radiology 1920 vii 137

Gammatherapy I Sluys and E Kessler I e cancer 1925 H 150

## Miscellaneous

Diathermy J Kowarschick 1926 Berlin Springer Diathermy in medicine W D McFee Boston M & 10 6 excs 389

Diathermy-clinical applications and case reports F M STANSBURY Clin Med, 19 6 TXXIII 553

Light and disease with remarks upon biological studies of light in the mountains W Hausmann Strahlenthe rapie 19 6 xxii 03

Heliotherapy in pulmonary tuberculosis I E Wood Lancet 1926 ccvi 37

A medical carbon are light lamp on new principle STEIN Brit J Radiol 19 6 VXXI 310

The hipphysics of ultraviolet light Boston M & S J 10 6 excv 391 Effect of ultraviolet radiation on metabolism W J

TINDALL Mil Surgeon 1926 hr 186 I hysical therapy today N E Tirus Am J Surg

10 6 ns 1 15 Applications of physiotherapy C A SMITH North vest Med 1026 773 427

# MISCELLANEOUS

Clinical Entities—General Physiological Conditions

Insulin glucose treatment of shock D FISHER Surg Gynec & Obst , 19 6 xlm 224

On diabetic gangrene with particular reference to the value of insulin in its treatment H BLOTNER and R FITZ Boston M & S J 1926 exciv 1155 [508] Sclerodermia and ro ntgen castration P SCHWIRZ Schweiz med Wchnschr 1926 lv1 246

Gangrene of fingers due to subclavian compression. A K HENRY and A HANDOUSA Brit M J 1926 H 254 The temperatures on the interior of tumors H NALA

Giwa and k Hara Arch f japan Chir 1926 ii No 2 Giant cell tumors not connected with bones L D CAMPBELL California & West Med 19 6 xxv 217 Cholesteatomatous cysts J M T FINNEY and E M HANRAHAN JR Ann Surg 1926 IXXXIV 95

A case of spontaneous multiple and symmetrical keloids S HIDAKA and H CHEN Acta dermatol Japan 1925 vi

681 and deutsch Zusammenfassung 19 5 p 6,9 Lymphoblastoma G R Minor Radiology 1926 vii 15081

Radiotherapy for lymphoblastoma A U DESJARDINS Radiology 1926 VII 121 The problem of cancer V SCHMIEDEN 1926 Frankfurt Englert and Schlosser

Cancer a study for the public J G SHERRILL Ken tacky M J 19 6 xxiv, 368

The recent cancer investigation in London K NATHER

Wien Llin Wchnschr 1925 XXXVIII 1325
The study of cancer in India K K CHATTERJI Indian M Gaz 1926 lx1 376

The cancer problem clinical and hiological observations 1 GREEL 1925 Leipzig Barth The experimental biological radiological investigation of

cancer E Markovits Strahlentherapie 19 5 vil 81
The structure and nature of carcinoma RITTER 50 The structure and nature of carcinoma Tag d deutsch Ges f Chir Berlin 10 6

General considerations of the genetic study of cancer L C STRONG J Cancer Research 1926 7 19 A study of the athreptic theory of the growth of cancer

k Sugiura and S R Benedict J Cancer Re earth 1026 X 194 Studies on the nature of the growth stimulus in cancer

M T Burrows J Cancer Research 1926 7 239 The action of lipoid solvents on the organism and in the production of cancer L H JORSTAD J Cancer Research 1926 x 299

Tar cancer in man and the precancerous state A BAYET

Le cancer 1925 11 177 The histopathogenesis of experimental tar cancer TRUTSCHLAENDER and SCHLSTER Zischt f I rebsforsch

1026 TUI 183 Mineralization of the blood of cancer patients and the potassium content R Paolucci Riforma med 1926

xiu 6 6 Is cancer an infectious disease? TEUTSCHLVENDER

Klm Wchnschr, 1926 v 470 Carcinoma as a social disease E Tricomi Actino

terapia 19 6 v 184 A critical contribution on the visibility of the virus in

cancer Riforma med 1926 vlii 636 Personal studies of cancer transplantation from man to

man KURTZAHN 50 Tag d deutsch Ges f Chir Berlin 1926

The individuality differential and the reaction against transplanted tissues and tumors with particular reference to the lymphocytic reaction L I ozn J Canter Re earch 19 6 x 252

Immunity in relation to tran plantable malignant tumors T LUISIDEN Lancet 1936 cxx 112 [509] The earlier recognition of cancer J houve Edmburgh M J 1926 ns vxxiii Med Chir Soc Edmburgh 117

Ilow often is the serological recognition of cancer successful? K VOLKMAN Zentralb! I Gymael 1926 I 531

Serum diagnosis of cancer G Izir Riforma med 19 6 xlu 697 Vigand's method in the serum diagnosis of cancer

Riforma med 1926 vln 534
Comparative value of Botelho's reaction and neutral red

in verified milignant tumors R LRAM 1 G NEUMANN and 1 Bredo Rev med Lat 1m 1926 u 1 00

The diagnostic and prognostic significance of blood cell sedimentation rapidity in carcinoma. H Cuthinann and

G II Schweider Arch f Cynack 10 6 cusin 515 Vbenigu infectious epithelioma of the skin II Marten

STEIN Klin Wehnschr 1916 v 563 608
Malignant epithelial neoplasm carcinoma and epithelioma occurring in persons under 6 years of age I II
FOWLER burg Gynec & Obst 1926 xlin t

A noteworthy case of idiopathic arcumato 1 of the skin J I Habrers and L Karolin's Deutsche Zischr f Chir 1926 exc. 1rg

The key man in cancer control G 1 Soper Boston VI & S J rg 6 exec 411

Further observations in the use of colloidal gold in in

operable cancer | II OCHNER Illinois VI J 1926 |

(blonde of any in increasable carringma, SEFINTIAL

Chloride of zinc in inoperable careinoma STEINTHAL
Muenchen med Wehnschr rg 6 Ixvni 408

I ead in the treatment of cancer 1 iforma med 1926

nin 636
Il ctrodesiccation and electrocoagulation as a means of destroying berien and malignant sain lesions. E. k.

STRATTON California & West Med 10 f xxx 102

Shall cancer be treated by radiation or surgery? If J

MLANS Obio State M f 10 6 xxx x x x

I law of the r latten between expo ure and biological effect of ridiate n W T Boyse J Cancer Pesearch 13 ( v 16)

Timal result in the survery of malignant disease C L

Gib v Ann Sur<sub>k</sub> to t levels 158

#### General Bacterral Trotozoan and Parasitic Infections

The mechani m of bacterial infection A O WHENEY Arch Sur, 10 t in 28

Comparative tudie of the virulence of streptococci and staphylococci G J 1) viz Monatsschr f Ceburtsh u Gynaek 19 (1881) 9

A case of enterococcic epticamia J R GOYENA and L J CAORST Rev Soc de med interna y Soc de tisiol 1926 il 193

Tetanus J L WEBB Ohio State M J 1926 xxii 694 Statistical observations upon ten years of antitetanus treatment F Maltrov Policlin Rome 1926 xxviii sez prat 1034

The Alpine heliotherapy of surgical tuberculosis A ROLLER Rev med de Barcelona 1926 in 50 The management of a severe case of tuberculosis by

dietetic treatment E ANDERSEN Muenchen med Wehnschr 1926 laxiii 324 Indications for surgery in syphilis L Thompson

South M J 1926 tx 615

Experimental infections with actinomyces carneus G

Serra Sperimentale 1926 lxx 257

Hydatid cyst of the subcutaneous cellular tissue L kasos Bol Soc de crug de Chile 1936 iv 100 Surgical complications of ascarides disease R Zam BELLI Iolichin Rome 1936 xviiii see prat 863

Symptoms of surgical echinococcus G MUENNICH Arch I Schulls u Tropen Hyg 1926 vvv 220

# Ductless Glands

Some observations on endocrinology C A MAYA Repert de med y cirug 1926 xvii 492

The endocrines in pathogenesis and therapy H J CHURD \ Orleans \lambda & S J 1926 lexix 92 Studies concerning the dependence of phagocytosis upon the internal secretion L Ashre Blochem Zischt 1915

Physical therapy of endocrine disturbances of the male and lemale sex glands I LIEBESTY Wien klin Wichn

schr 1926 txxx 363

The importance of sex gland preparations in clinical medicine f Brunsch and II Rothmann Med Klin 1926 txu 18,

# Surgical Lathology and Diagnosis

The importance of pathology in the practice of surbery

J Schwartz Am J Surg 1926 ns 1 93

The gene is of fetal inclusions M Budde Muenchen

med Wchnschr 19 6 lvxiii 246

Euperimental studies on the subject of inflammation
It The oxygen respiration of the tissue in inflammation
and irritation If GROLL Krankh Forsch 1920 ii 220

The causes of creatment contraction J S Horsley Ann Surg 19 6 lextro 18, The healing of skin wound W M ASAROFF Ver handl d 16 russ Chir Kong Moscow 1925 p 114 [510]

handd i foruss Chir Kong Moscow 1925 p 114 [510]
Newer findings with regard to wound healing S S
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